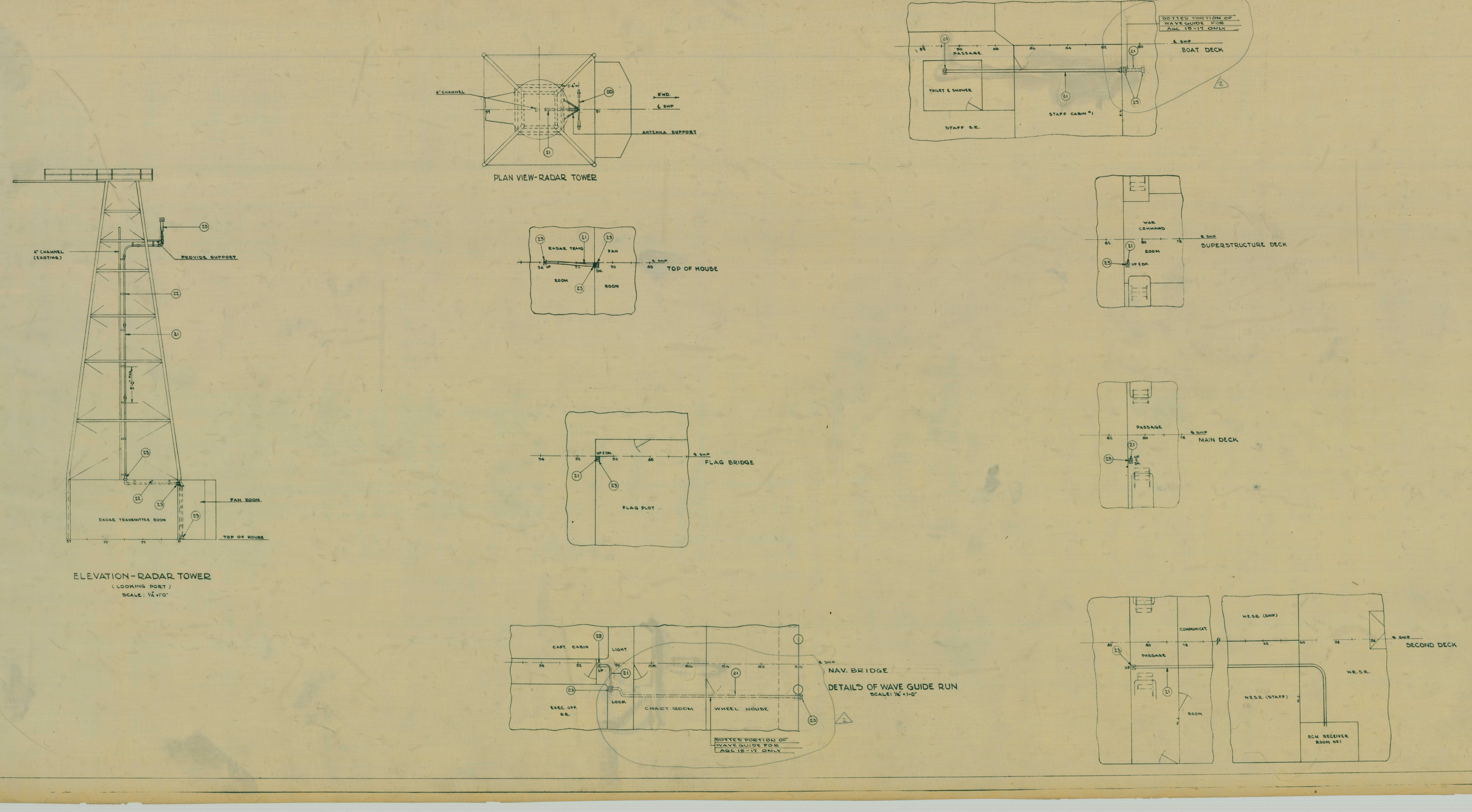
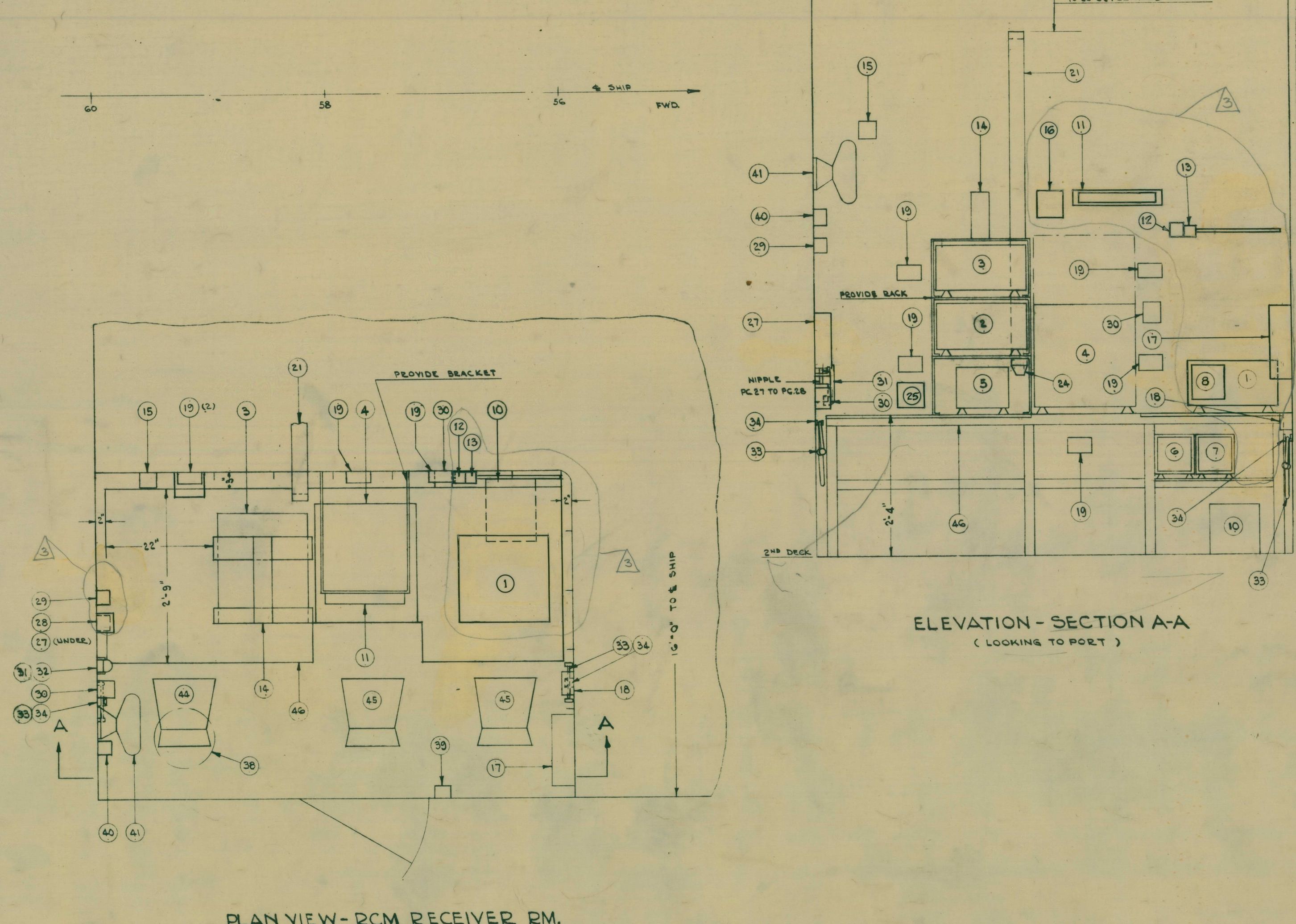
GC 16
16





PLAN VIEW - RCM RECEIVER RM.
(2ND DECK FR 56-60)
SCALE: 1"=1'-0"

MATERIAL FOR ONE SHIP — JOB ORDER SEE LIST OF JOB ORDERS

SYMBOL	SYMBOL NUMBER	NUMBER REQ'D	DESCRIPTION	MATERIAL SPEC.	DRAWING NUMBER CONTRACTOR	DRAWING NUMBER BU. SHIPS	REMARKS	UNIT WEIGHT
	1	1	RECEIVER MODEL RDO				ORDERED ON DWG AGC5-S6700-744382	
	2	1	PANORAMIC ADAPTOR MODEL RDP					
	3	1	ANALYZER MODEL RDJ					
	4	1	DIRECTION-FINDER MODEL DBM-1					
	5	1	RECEIVER MODEL SPR-2					
	6	1	TN-1 TUNING HEAD					
	7	1	TN-2 TUNING HEAD					
	8	1	TN-3 TUNING HEAD					
	9							
	10	1	SELENIUM RECTIFIER TYPE CAGM 20353					
	11	1	ANTENNA SELECTION PANEL TYPE J-116/SPR					
	12	1	WAVE TRAP TYPE F-19/UPR					
	13	1	WAVE TRAP TYPE F-20/UPR					
	14	1	WAVE TRAP TYPE F-26/UPR					
	15	1	HIGH PASS FILTER TYPE F-29/SPR-2					
	16	1	SWITCH, CW1-24695					
	17	1	DISTRIBUTION BOX TYPE XXII W.T.			9-S-5195-L		
	18	1	RECEPTACLE, DOUBLE			9000-S6202 73274		
	19	5	RECEPTACLE DOUBLE TYPE P-1S			9-S-4564-L		
	20	1	ANTENNA TYPE AS-45A/APR-6					
	21	1 SET	1½" x 3" WAVE GUIDE & FITTINGS					
	22	80	WAVE GUIDE SUPPORT			P.N.Y. # 47325	DETAIL 7	
	23	10	BULKHEAD FITTING				DETAIL 6	
	24	1	1½" x 3" TO 1½" x 2" TRANSFORMER (FOR WAVE GUIDE)					
	25	1	ATTENUATOR, CPN 633449					
	26							
			I.C & F.C.					
	27	1	PUSH BUTTON, 5 GANG TYPE A, W.T.			9-S-4629-L	ORD. ON REF DWG. # 5 & # 10	
	28	1	PUSH BUTTON, SINGLE TYPE R W.T.			9-S-4581-L		
	29	1	BUZZER - LOW INTENSITY TYPE Z-2, W.T.					
	30	2	JACK BOX TYPE T-1M W.T				ORD. ON REF. DWG # 6 & 11	
	31	1	S.P. TELEPHONE HANDSET N.W.T.					
	32	1	HANDSET MOUNTING BRACKET			12-T-915-L		
	33	2	S.P. TELEPHONE HEAD SET					
	34	2	STOWAGE HOOK FOR HEADSET			PHILA. # 36167	ORDERED ON DWG AGC5-S6501-494959	
	35							
	36							
	37							
			LIGHTING					
	38	1	CEILING FIXTURE TYPE VIII-MRIII			9-S-4902-L	ORDERED ON REF DWG # 8 & 9	
	39	1	SNAP SWITCH TYPE DD-S N.W.T			9-S-4718-L		
	40	1	RECEPTACLE, CONVENIENCE, TYPE C-M1			9-S-5108-L		
	41	1	FAN, 115 V. D.C.					
	42							
	43							
			HULL					
	44	1	CHAIR TYPE I					
	45	2	CHAIR TYPE IV					
	46	1	TABLE					

LIST OF JOB ORDERS

AGC 5	5459-K-6713/5325
AGC 15	1051-A-6701

ALTERATIONS

NO.	PANEL NO.	DESCRIPTION	APPROVED	DATE	B/M AFFEC'D
1		PLAN MADE APPLICABLE TO AGC15-17. C.A.B 4-19-45	EJB AEB	4/20/45	NO.
2		RELOCATED WAVE GUIDE RUN FOR AGC.15-17 H.S. 6-15-45	EJB AEB	6/19/45	NO.
3⁴		ADDED CW1-24695 SWITCH, AND CPN-633449 ATTENUATOR. DELETED ONE EACH RDP PAN. ADAPTOR & RDJ ANALYZER IN ACCORDANCE WITH LATEST REVISED ALLOWANCE	EJB	3/17/47	YES

SPACE ABOVE LINE TO BE KEPT CLEAR

NOTES:
1- WAVE GUIDE SUPPORTS SHOULD BE SPACED 5'-0" ON MAST AND 2'-6" BELOW DECKS.

REFERENCE DRAWINGS

TITLE	BU. SHIP DWG NOS.
1- GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT IN RCM TRANSMITTER ROOM	AGC5-S6700-744375
2- GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT IN RCM INTERCEPT ROOM Nº2	AGC5-S6700-744377
3- RCM SYSTEM ISOMETRIC WIRING DIAGRAM	AGC5-S6700-744382
4- TYPICAL ARRANGEMENT OF RCM RECEIVER ROOM Nº1	RE100F166B
5. S.P. TEL. CALL BELL SYS. CIR "E" ISOM. WIRING DIAGRAM.	AGC5-S6504-494953
6. " " CIR. "JA"-"XJZ" " " "	AGC5-S6501-494957
7. " " CIR. "JA"-"XJZ" LOCATION OF STOWAGE HOOKS	AGC5-S6501-494959
8. LIGHTING SYS. DECK PLAN - 2ND. DECK FWD.	AGC1-S64-12
△1 9. " " " " - " " " .	AGC15-S6400-496023
△1 10. S.P. TEL. CALL BELL SYS. CIR "E" ISOM. WIR. DIAG.	AGC15-S6504-496060
△1 11. " " SYS. "JA" TO "JZ" ISOM. WIRING DIAG.	AGC15-S6501-496040

U.S.S. AGC17 — ATLANTIC BASIN IRON WKS.
U.S.S. AGC16 — BOSTON NAVY YARD
U.S.S AGC15 — PHILA NAVY YARD
U.S.S. AGC 5 — PHILA. NAVY YARD
NAMES & NUMBERS OF APPLICABLE VESSELS — NAMES OF BUILDING YARDS
NAME, ADDRESS AND PLAN NO. OF OTHER CONTRACTORS OR SUB-CONTRACTORS

PHILADELPHIA NAVY YARD
INDUSTRIAL DEPARTMENT

[redacted]
MACHY. PLAN

SCALE 1/4, 1" =1 FT.		SQUAD LEADER Gm Kaleda ELECT. ENGR.	DATE 4/16/45
DRAWN BY A.F. AIELLO	DATE 4/16/45	GROUP SUPERVISOR E. J. Burke SENIOR ELECT. ENGR.	4/16/45
TRACED BY		SECTION SUPERVISOR A. E. Bradley PRINCIPAL ELECT. ENGR.	4/16/45
CHECKED BY C.A.B.	4-16-45	L. A. Kenney HEAD MARINE ENGR.	4/17/45

APPROVED J. W. Hammond
DATE J.W. HAMMOND, COMDR. U.S.N.R.
FOR THE DESIGN SUPERINTENDENT

SATISFACTORY TO William S Patchell for SENIOR RADIO ENGR.
W H Beltz CAPT. RMO.

APPROVED BUREAU OF LETTER

PLAN
EXAMINED AND FOUND CORRECT
DATE DESIGN SUPERINTENDENT

TITLE
GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT IN RCM RECEIVER ROOM Nº1

BUREAU OF SHIPS PLAN NUMBER
AGC5-S6700-744376 ALT.3

RESTRICTED

PLAN REPRODUCTION UNIT
PHOTACT DEPT.

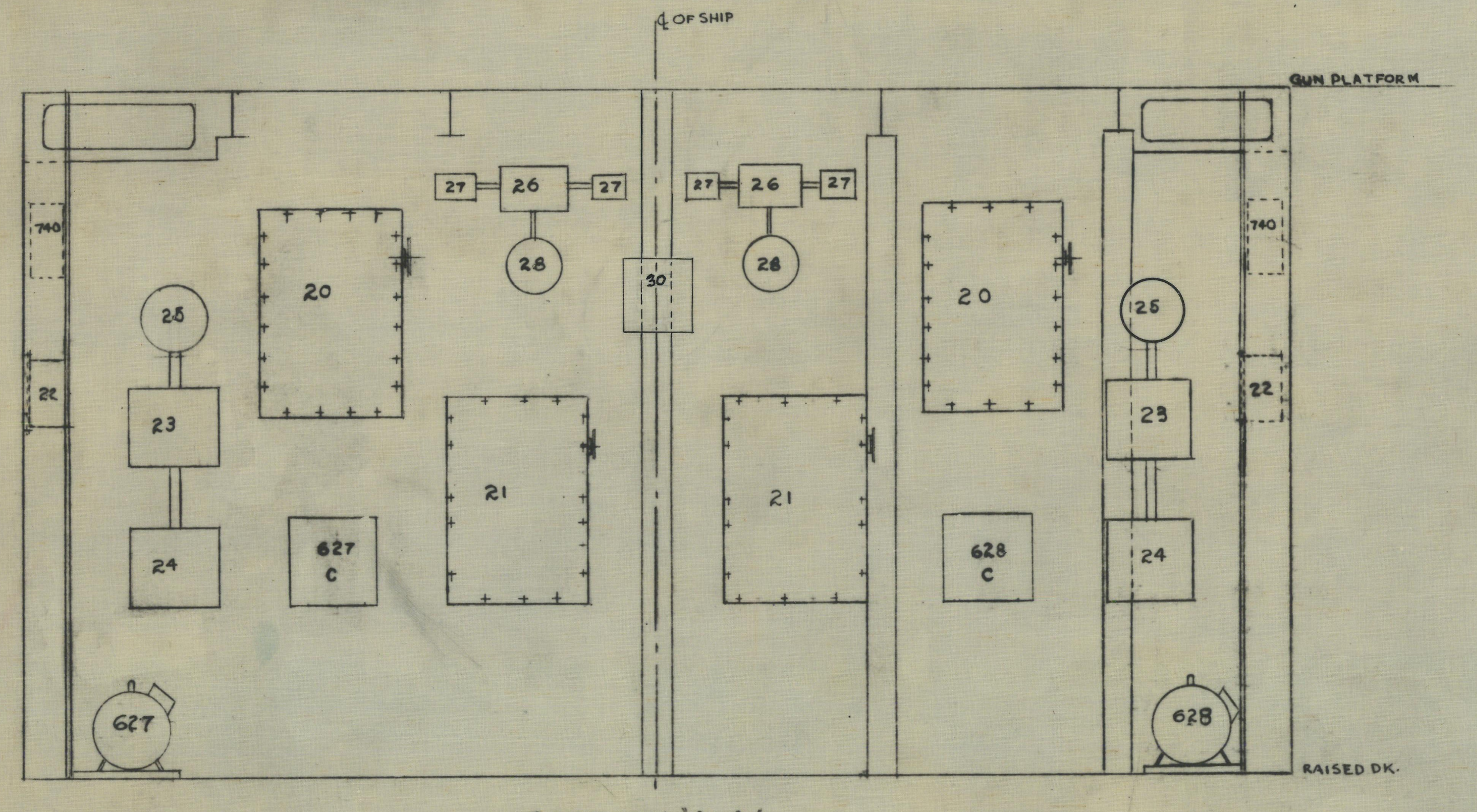
	DAYS	
PHOTACT RETURNED FOR TOUCH-UP		
ORIGINAL RETURNED FOR TOUCH-UP		
ORIGINAL NOT REPRODUCIBLE		
PASSED FINAL INSPECTION	4/27	am

SPACE FOR RECORD OF PRINTS OR OTHER DATA
NOT TO BE USED FOR ALTERATIONS, TABLES, BILL OF MATERIALS, ETC.

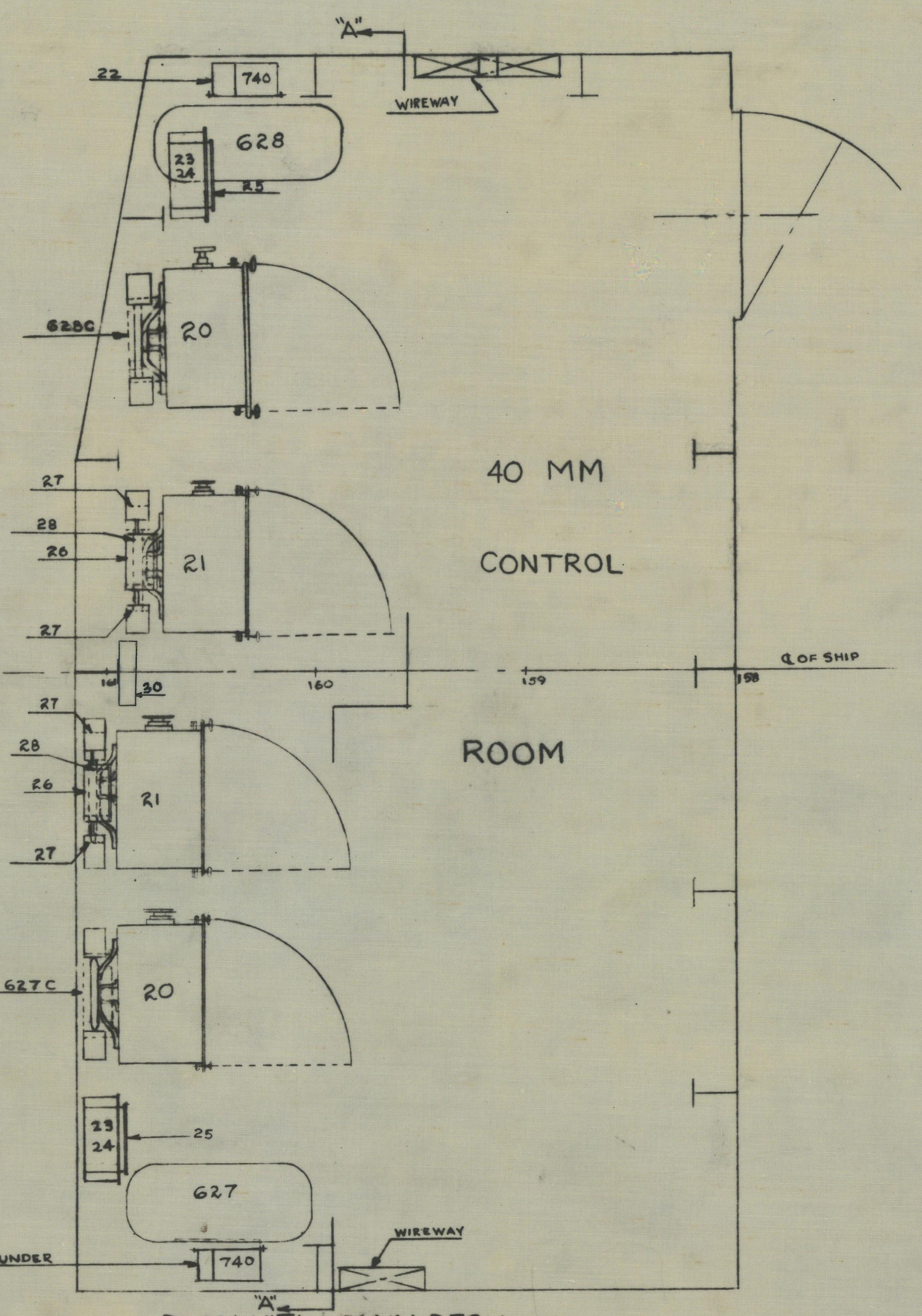
AREA- X 28" = sq. ft.

AGC 5-S6700-744376 RESTRICTED

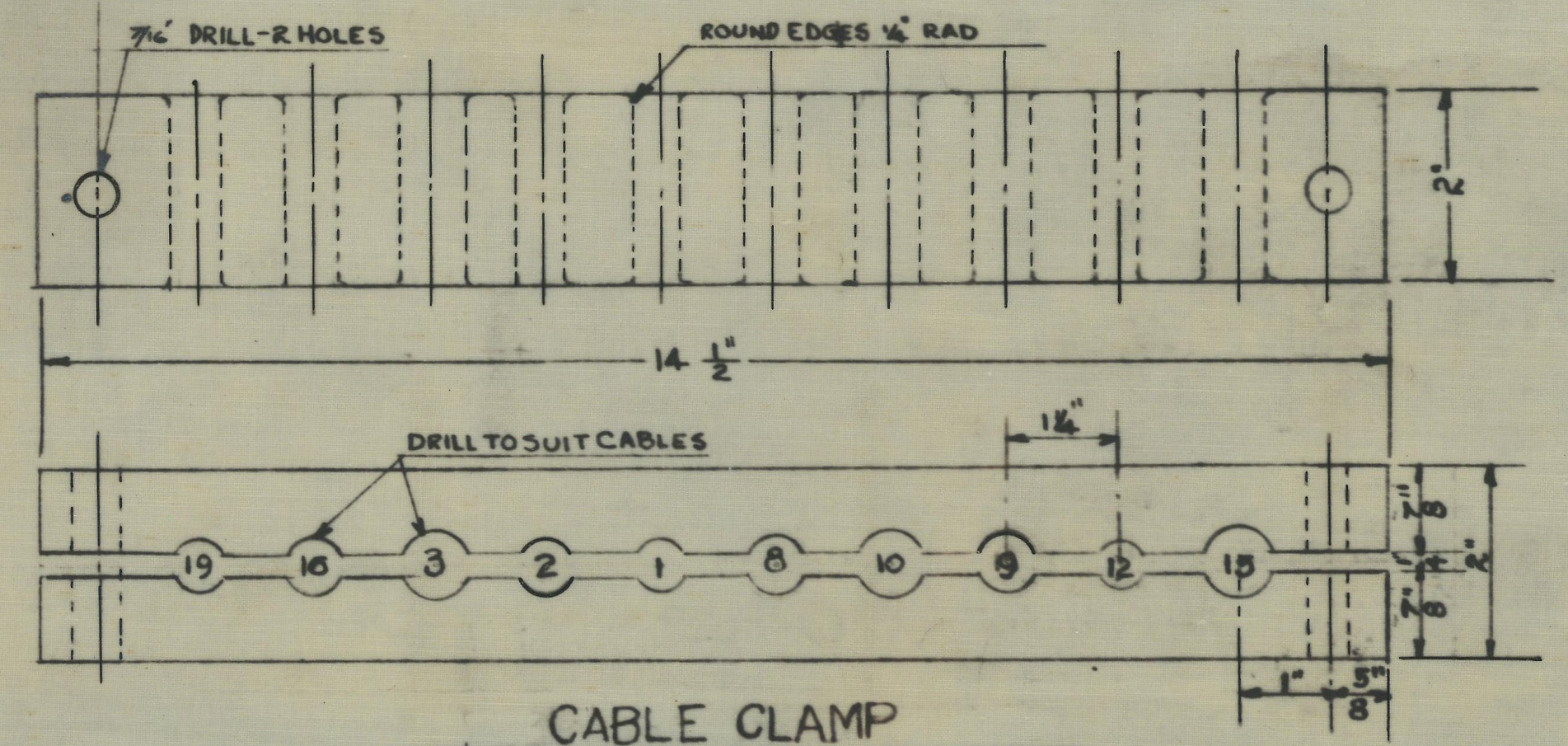
DECLASSIFIED
Authority EO 13526 Section 3.3
NND NW 47327



SECTION "A-A"
SCALE: 3/4" = 1'-0"

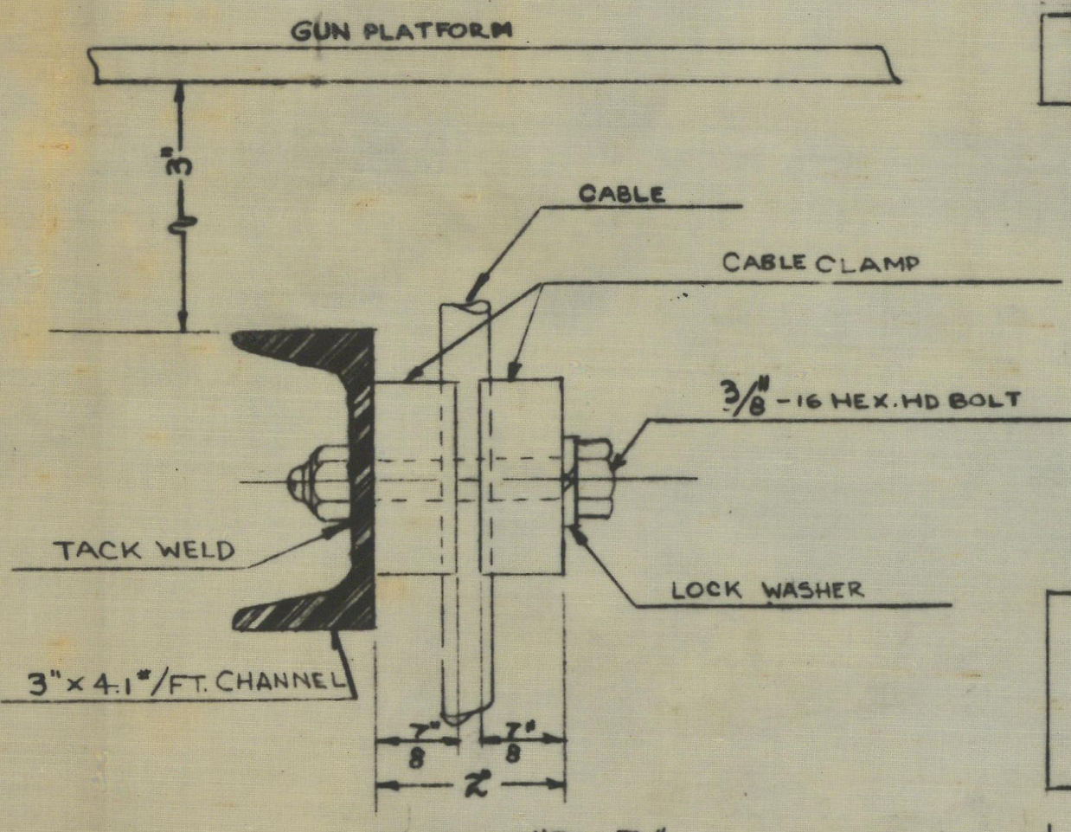


PLAN VIEW - MAIN DECK
SCALE: 1/4"

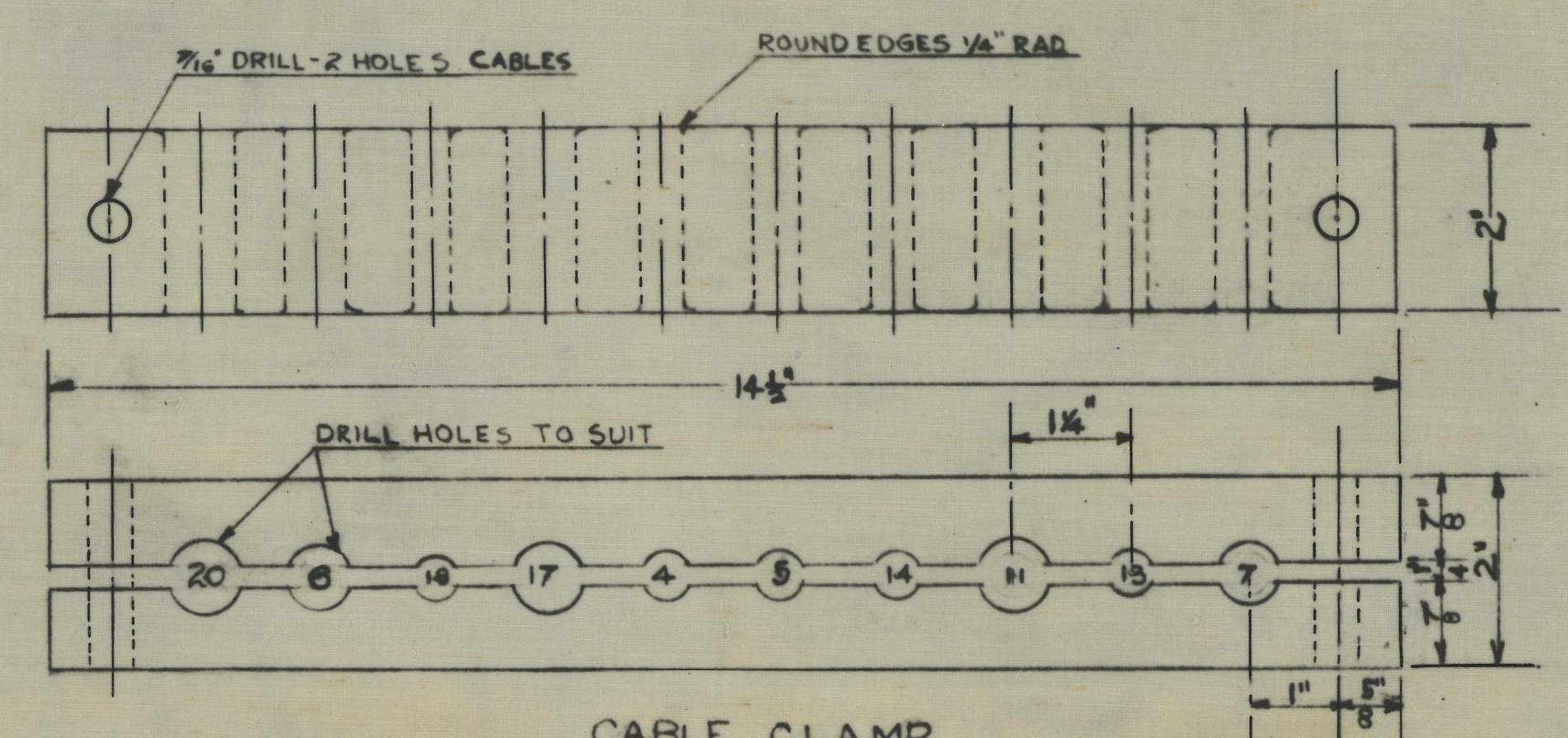


CABLE CLAMP
(FOR AFT. SIDE OF CABLE ENCLOSURE)
SCALE 6" = 1'-0"

DETAIL "D"

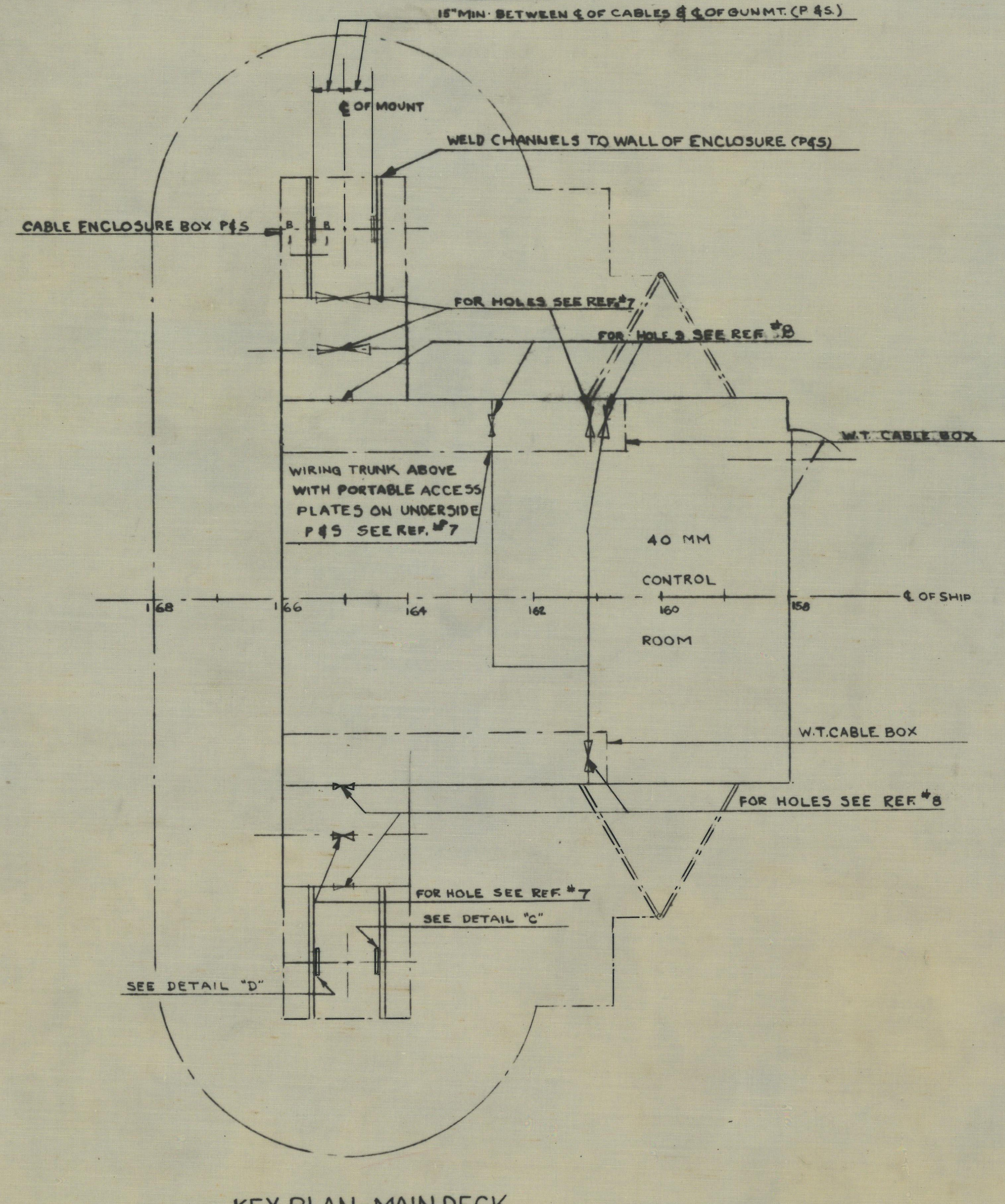


SECTION "B-B"
SCALE: 6" = 1'-0"



CABLE CLAMP
(FOR FWD. SIDE OF CABLE ENCLOSURE)
SCALE: 6" = 1'-0"

DETAIL "C"



15" MIN. BETWEEN ℄ OF CABLES & ℄ OF GUN MT. (P & S)
℄ OF MOUNT
WELD CHANNELS TO WALL OF ENCLOSURE (P & S)
CABLE ENCLOSURE BOX P & S
FOR HOLES SEE REF. #8
FOR HOLES SEE REF. #8
W.T. CABLE BOX
WIRING TRUNK ABOVE WITH PORTABLE ACCESS PLATES ON UNDERSIDE P & S SEE REF. #7
40 MM
CONTROL
ROOM
℄ OF SHIP
W.T. CABLE BOX
FOR HOLES SEE REF. #8
FOR HOLE SEE REF. #7
SEE DETAIL "C"
SEE DETAIL "D"

KEY PLAN - MAIN DECK
SCALE: 1/4" = 1'-0"

CABLE DATA

ORD. NO	TYPE & SIZE	DIAMETER
1	TTOP-3	.480
2	FCOP-4	.520
3	MCOP-10	.760
4	TCOP-4	.460
5 *	TCOP-4	.460
6 *	MCOP-7	.627
7 *	MCOP-7	.627
8	MCOP-7	.627
9	MCOP-7	.627
10	MCOP-10	.760
11	MCOP-10	.760
12	FCOP-4	.520
13	DCOP-3	.440
14	FCOP-4	.520
15	MCOP-10	.760
16	TCOP-6	.520
17	MCOP-10	.760
18	DCOP-3	.440
19	FCOP-4	.520
20	MCOP-10	.760

*SPARE

MATERIAL FOR ONE SHIP — JOB ORDER NO. 1051-A-6201

PIECE NO.	NAME OF PIECE	NO. REQ.	MATERIAL	MATERIAL SPECS.	REMARKS	UNIT WT.
1.	3" x 4.1#/FT. CHANNEL	20 FT.	STEEL	46S1	BUILDING YARD PROVIDE	
2	MELAMINE CABLE CLAMP	8	MELAMINE GMG	17P5 (INT)	↓	
3	3/8" - 16 HEX. HD BOLT. 3" LONG WITH NUT	8	STEEL ZN. PL.	43B11		
4	LOCKWASHER FOR 3/8" - 16 BOLT	8	STEEL	COMM'L		
5	1/2" - CONDUIT	2 FT.	↓	↓		
6	1" - CONDUIT	1 FT.				
7	1 1/2" CONDUIT	2 FT.				
8	1/2" BUSHING & LOCKNUT	12				
9	1" BUSHING & LOCKNUT	4				
10	1 1/2" BUSHING & LOCKNUT	4				
11	CANVAS (RED LEADED)	1 SQ. FT.	COTTON	24-C-8		

LIST OF SYMBOLS

SYMBOL NO.	NO. REQ.	DESCRIPTION	DWG. NUMBER	REMARKS.
25	2	ILLUMINATION TRANSFORMER	BU. ORD. 180811	SUPPLIED BY BU. ORD
23	2	CONNECTION BOX, 56 WIRE, W.T.	↓ 330739	↓
26	2	" " ", 10 WIRE W.T.	9-S-5161-L	SUPPLIED ON REF. NO. 4
24	2	FUSE BOX, MK3	BU. ORD. 328366	SUPPLIED BY BU. ORD
740	2	FUSE BOX, MK4	↓ 328367	↓
22	2	TRANSFER SWITCH	9000-S6202-73003	SUPPLIED ON REF. NO. 3
627	1	1KW M-G SET		SUPPLIED ON REF. NO. 6
627(C)	1	CONTROLLER FOR 1KW M-G. SET		
628	1	1KW M-G SET.		
628(C)	1	CONTROLLER FOR 1KW M-G. SET		↓
20	2	TRAINING CONTROLLER	BU. ORD. 345489	SUPPLIED BY BU. ORD
21	2	ELEVATING CONTROLLER	↓ 345459	↓
27	4	BRANCH JUNCTION BOX	9-S-4914-L	SUPPLIED ON REF. NO. 4.
28	2	RELAY, 115 V.A.C. 5 AMP. IN W.T. ENCL.	EDWARD & CO. PLAN NO.	↓
30	1	CONNECTION BOX 20 PR.	9-S-4426-L	SUPPLIED ON REF. NO. 5

NOTES

1. IN ORDER TO PROVIDE SUFFICIENT SLACK IN CABLES, SO AS TO ALLOW MAXIMUM TRAIN TO CLEAR ALL FIXED INTERFERENCES. ALL CABLES IN W.T. BOX BELOW GUN MOUNT SHALL BE INSTALLED WITH A LOOP 50" LONG AS MEASURED FROM THE LAST HANGER ON THE FIXED STRUCTURE TO THE SPACER BLOCK ON ROTATING STRUCTURE.
2. MAXIMUM ANGLE OF TRAIN IS 720° (360° RIGHT AND 360° LEFT FROM MID-TRAIN POSITION).
3. CABLES TO BE FREE FROM TWIST WHEN MOUNT IS IN MID-TRAIN POSITION.
4. ALL CABLES FROM CONTROL ROOM TO GUN MOUNTS SHALL BE OF THE FLEXIBLE UNILAY FLEXIBLE TYPE AND IN ACCORDANCE WITH BU. SHIPS SPEC. 15-C-1 (INT.)
5. CABLE HANGERS IN WIRING TRUNK SHALL NOT EXCEED 16" ℄ TO ℄
6. WHERE FLEXIBLE CABLES RUN THROUGH STUFFING TUBES OR TERMINAL TUBES, ONE OF THE METHODS STATED ON NOTE 15 ON BUREAU OF SHIPS DWG. 9-S-5166-L SHALL BE USED
7. SHIPALT AGC369 SUPERSEDES SHIPALT AGC322.

REFERENCES

1.	40 MM MOUNT MK. 1, MOD. 6 & 7 (TWIN MOUNTS) EXTERNAL WIRING DIAGRAM, YORK POWER DRIVE	BU. ORD. NO. 329746
2.	TYPICAL CABLE INSTALLATION BELOW BASE OF 40 MM TWIN MOUNTS	BU. ORD. SK. NO. 96927
3.	HEAVY MACHINE GUN CONTROL AND FIRING SYSTEM F.C. CIRCUIT "GM & 4PA" - ISOMETRIC WIRING DIAGRAM	AGC15-S7103-496126
4.	HEAVY MACHINE GUN CEASE FIRING SIGNAL SYSTEM - F.C. CIRCUIT "45U" ELEM. & ISOM. WIRING DIAGRAM	AGC15-S7103-496129
5	SOUND POWERED TELEPHONE SYS. - CIRCUIT - "JY" ISOM. DIAGRAM	AGC15-S6501-496044
6	POWER SYSTEM - DECK PLAN - MAIN DECK AFT.	AGC15-S6202-496000
7	FOUNDATIONS AND PLATFORM FOR 40 MM. TWIN MTS.	AGC7-S7402-489169
8.	DECK HOUSE FOR 40 MM GUNS - MAIN DECK AFT.	AGC7-S1107-489086

SUBSTITUTIONS FOR CRITICAL MATERIALS
ON THE BASIS OF TIME AND AVAILABILITY
HAVE BEEN MADE WHEREVER FEASIBLE.

ALTERATIONS

NO.	PANEL NO.	DESCRIPTION	APPROVED	DATE	B/M AFFEC'D
1		REMOVED RESERVATION ADDED CONNECTION BOX SYM. NO. 30 CHANGED DRAWING NOS. OF SYM. - 24 & 740 M.V. JOHNSON 4-11-45	ORB	4/12/45	NO
2		PLAN RENDERED OBSOLETE BY REMOVAL OF 40M/M MOUNTS 3 & 4. (SHIPALT W. AGC369. SEE NOTE 7.) (R.V.C.) Z.	KLW	2/3/55	YES

SPACE ABOVE LINE TO BE KEPT CLEAR

NAMES & NUMBERS OF APPLICABLE VESSELS	NAMES OF BUILDING YARDS
AGC 17	ATLANTIC BASIN IRON WORKS, BROOKLYN, NY
AGC 16	BOSTON NAVY YARD
AGC 15	PHILA. NAVY YARD

NAME, ADDRESS AND PLAN NO. OF OTHER CONTRACTORS OR SUB-CONTRACTORS

PHILADELPHIA NAVY YARD
INDUSTRIAL DEPARTMENT

[redacted]
MACHY. PLAN

SCALE AS SHOWN = 1 FT.			SQUAD LEADER D.N.W.	DATE 2/16/45
DRAWN BY M.H. ABRAMS		DATE 2/16/45	GROUP SUPERVISOR KLW SENIOR ELEC. ENG'R	2/19/45
TRACED BY			SECTION SUPERVISOR A.B. Bradley PRINCIPAL ELEC. ENG'R	2/19/45
CHECKED BY D.N.W.		2/16/45	L. H. Kenney HEAD MARINE ENG'R	2/19/45

APPROVED
DATE 2/19/45 FOR THE DESIGN SUPERINTENDENT
COMDR. HAMMOND U.S.N.R.

SATISFACTORY TO	APPROVED BUREAU OF LETTER

PLAN
EXAMINED AND FOUND CORRECT
DATE DESIGN SUPERINTENDENT

TITLE
GENERAL ARRANGEMENT
OF ELECTRICAL EQUIPMENT
FOR 40 MM. HMG. MTS. 3 & 4

BUREAU OF SHIPS PLAN NUMBER
AGC15-S7402-495949 ALT. 2

PLAN REPRODUCTION UNIT
PHOTACT DEPT.

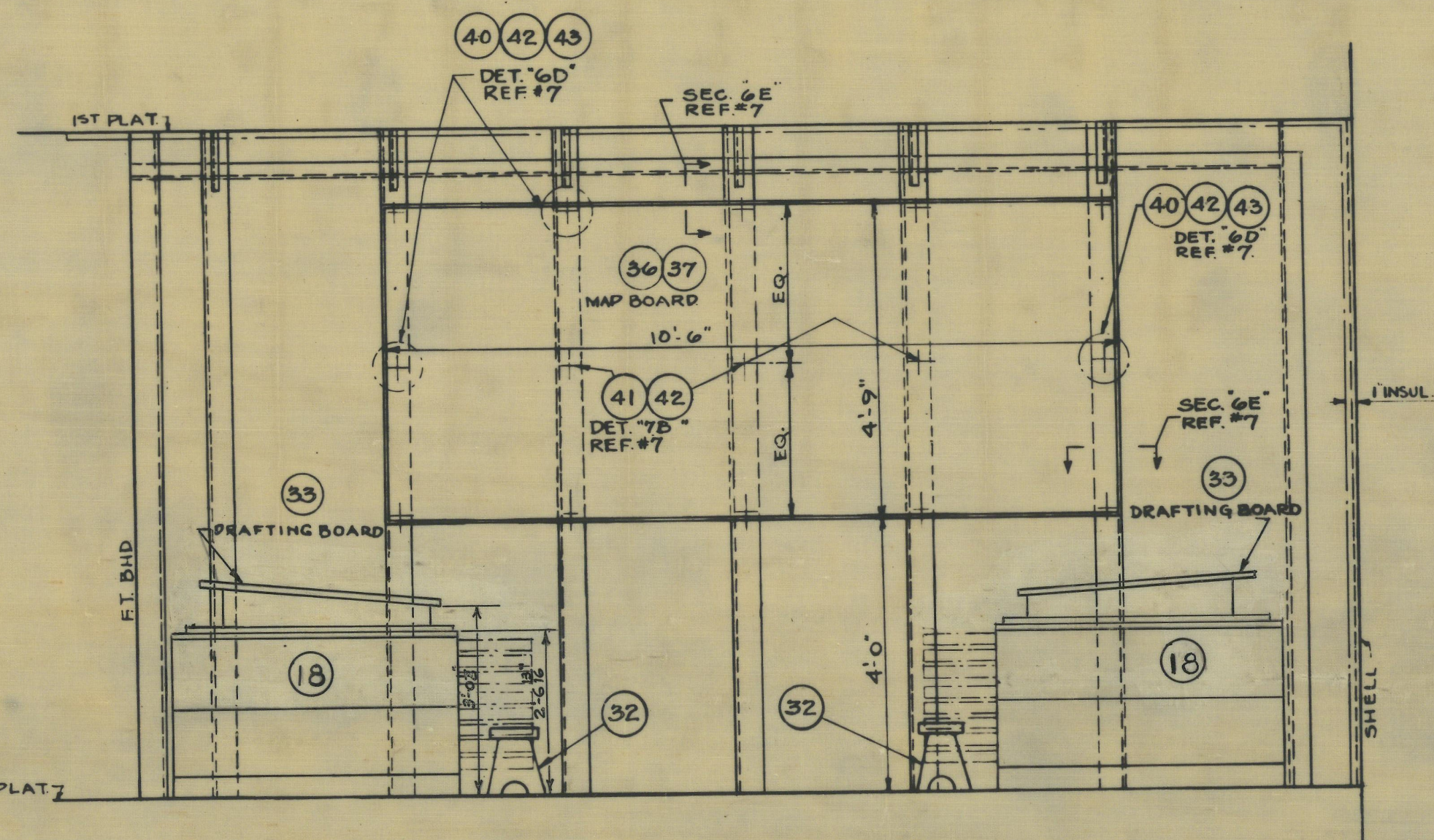
	DATE	
PHOTACT RETURNED FOR TOUCH-UP		
ORIGINAL RETURNED FOR TOUCH-UP		
ORIGINAL NOT REPRODUCIBLE		
PASSED FINAL INSPECTION	2-28-45	NFA

SPACE FOR RECORD OF PRINTS OR OTHER DATA
NOT TO BE USED FOR ALTERATIONS. TABLES. BILL OF MAT

AREA - X 28" = sq. ft.

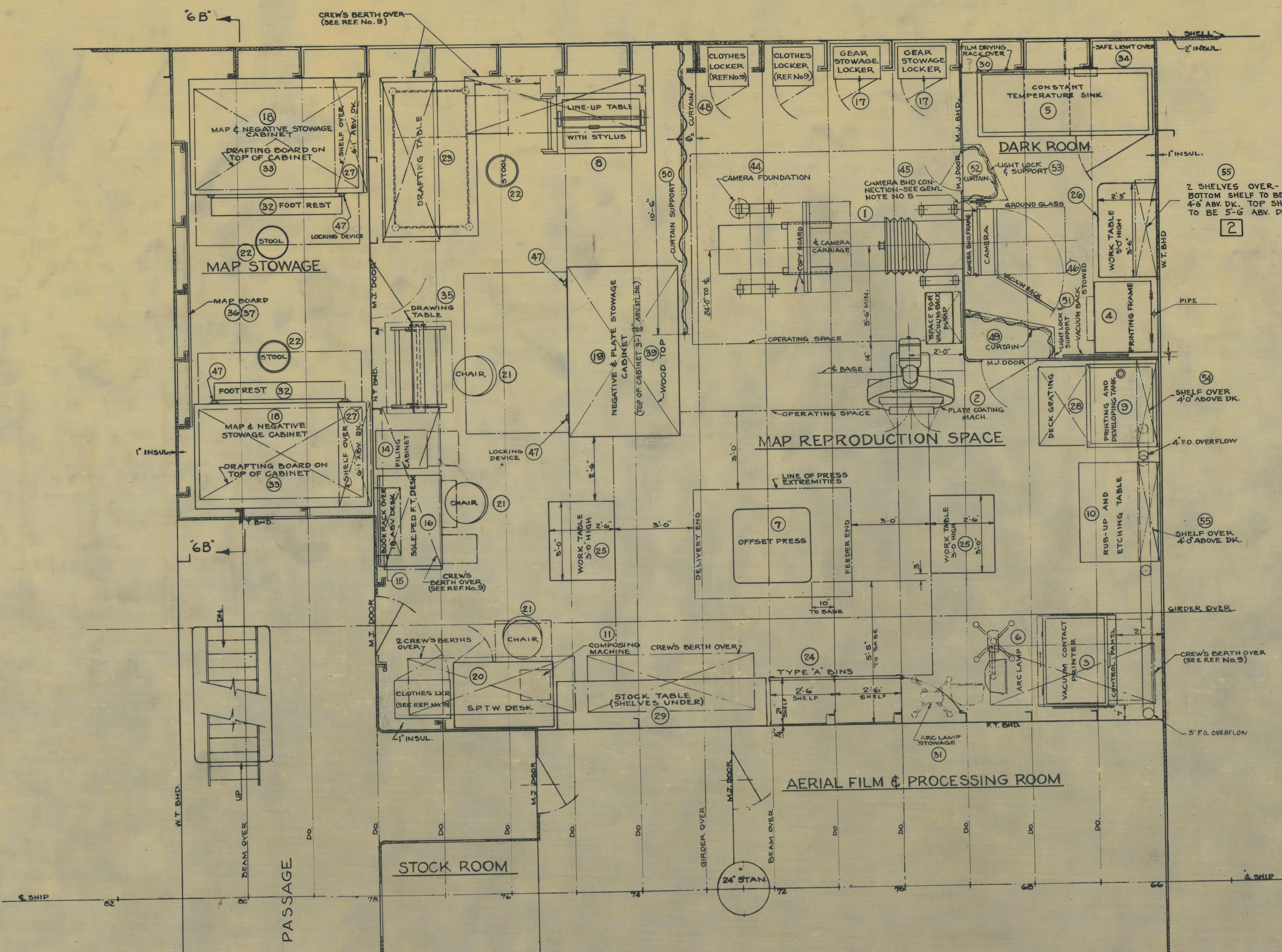
15-S7402-495949

1937 K&E CO., N.Y.



SECTION "6B"

SCALE: 1/2" = 1'-0"



PLAN VIEW OF MAP STOWAGE, DARK ROOM & MAP REPRODUCTION SPACE

2ND PLATFORM

SCALE 1/2"-1'-0"

MATERIAL FOR ONE SHIP

Job Order 1051-A-9101

	PIECE No.	NAME	NUMBER WANTED	MATERIAL KIND	MATERIAL SPECS.	SOURCE AGC 15&16	ALLOW. TITLE	JOB ORDER		REMARKS	CAL. WTS. UNIT	CAL. WTS. TOTAL
	1	FILM TYPE CAMERA	1	—	—	GOV'T. FURN.		1051-A-9101		ITEM No. 30-REF. No. 3		
	2	PLATE COATING MACHINE	1	—	—					32		
	3	VACUUM CONTACT PRINTER	1	—	—					33		
	4	PRINTING FRAME	1	—	—					42		
	5	CONSTANT TEMP. SINK	1	—	—					40		
	6	SINGLE ARC LAMP	1	—	—					34		
	7	OFFSET PRESS	1	—	—					31		
	8	LINE-UP TABLE WITH STYLUS	1	—	—					36		
	9	PRINTING & DEVELOP. TANK	1	—	—					38		
	10	RUB-UP & ETCHING TABLE	1	—	—					35		
	11	COMPOSING MACH.- VARITYPER	1	—	—					37		
	12	HALFTONE SCREEN	1	—	—					41		
	13	TRAY	5	—	STAINLESS STEEL					39		
	14	FILING CABINET-TYPE "D"	1	STEEL	26-F-4	Ⓕ	TITLE "B"	1051-H-0000-5		PC. No. 39 No. 4		
	15	BOOK RACK-TYPE "B"	1			Ⓕ		1051-A-9101		25		
	16	SGLE. PED. FLAT TOP DESK- L.H.	1			Ⓕ				80		
	17	GEAR STOWAGE LOCKER	2			Ⓕ				111		
	18	MAP & NEGATIVE STOW. CAB.	2			Ⓕ	TITLE "B"	1051-H-0000-5		34		
	19	NEGATIVE & PLATE STOW. CABINET	1			Ⓕ				35		
	20	SGLE. PED. T.W. DESK - R.H.	1			Ⓕ		1051-A-9101		77		
	21	CHAIR	3		26-C-6 INT.		TITLE "B"	1051-H-0000-2		SEE HULL ALLOWANCE		
	22	STOOL-TYPE "N-14"	3									
1	23	DRAFTING TABLE	1		—	GOV'T. FURN.		1051-A-9101		PART 1 (MACH) ALLOWANCE GROUP S91-1-PR1		
	24	TYPE "A" BINS	1		—					DET. "5A" - REF. No. 5		
	25	PRESS WORKTABLE	2		—					"4-D"		
	26	DARKROOM WORKTABLE	1		—					"4-A"		
	27	SHELF	2		—					"6-A"		
	28	GRATING	1		—					"5-C"		
	29	STOCK TABLE	1		—					"6-G"		
	30	FILM DRYING RACK	1		—					"5-D"		
	31	ARC LAMP STOWAGE	1	—	—					"6-C"		
	32	FOOT REST	2	—	—					DETAILED ON REF. No. 6		
	33	DRAFTING BOARD	2	—	—							
	34	SAFE LIGHT	1	—	—					FURN. BY ELECT. SECTION		
1	35	DRAWING TABLE	1	—	—	GOV'T. FURN.	TITLE "B"			PART 1 (MACH) ALLOWANCE GROUP S91-1-PR1- SEE GEN. NOTE #4		
	36	MAP BOARD	1	PLYWOOD	39-P-15 INT.					3/4 THK. × 4'-9" × 10'-6" GR. IA-TYPE A- CLASS b		
	37	MAP BOARD TOP	1	LINOLEUM	LLL-L-351					6m/m THK × 4'-9" × 10'-6" GREEN		
	38	CEMENT	AS REQ'D	LINOLEUM CEMENT	52-C-5							
	39	WOOD TOP	1	—	—					DET. "8-C" - REF. No. 5		
	40	FASTENING CLIP	12	M.W. ST'L.	46-S-1 INT					1½"×¼" F.B. × 2½" LG.- L=2"		
	41	↓	3							2"×¼" F.B × 3" LG. - L=2"		
	42	¼"-20-NC2 FL. HD. MACH. SCREW	15	STEEL ZINC-COAT.	42-S-5 INT.					1½" LG.		
	43	¼"-20-NC2 HEX. HD. NUT	12									
	44	CAMERA FOUNDATION	8	—	—					DET. "4F" - REF. No. 5		
	45	CAMERA BHD. CONNECTION	1	—	—					"4G"		
	46	VACUUM BACK STOWAGE	1	—	—					"6E"		
	47	LOCKING DEVICE	6	—	—					"3A"		
	48	CURTAIN	1	#10 CANVAS	24-C-20 INT.		TITLE "B"	14-Z-250723-8		COMPLETE WITH GROMMETS & CURTAIN HOOKS		
	49	↓	1									
	50	SUPPORT	1	—	—			1051-A-9101		DET. "5E" - REF. No. 5		
	51	LIGHT LOCK & SUPPORT	1	—	—					"2A"		
	52	CURTAIN	1	#10 CANVAS	24-C-20 (INT.)		TITLE "B"	14-Z-250723-8		COMPLETE WITH GROMMETS & CURTAIN HOOKS		
	53	LIGHT LOCK & SUPPORT	1	—	—			1051-A-9101		DET. "7A" REF. No. 5		
	54	SHELF	1	STEEL	—					"7B"		
2	55	SHELF	3		—					"7C"		

REFERENCES

		BUSHIPS PLAN No.
1.	2ND. PLATFORM-COMPT. & ACCESS	AGC15-S1601-495721
2.	2ND PLATFORM-GEN'L. ARRGT.	AGC15-S3301-495776
3.	BUREAU FURNISHED MATERIAL LIST FOR AGC 15	
4.	LIST OF METAL FURNITURE	AGC15-S3209-495773
5.	MAP STOW., DARK RM. & MAP REPRODUCT. SPACE-DETAILS	AGC7-S8502-489284
6.	DRAFTING BOARD FOR TOP OF MAP STOW. CABINET	AGC5-S8502-103152
7.	PHOTO. INTERPRETATION OFFICE, COPY'G., FINISH'G. & FILE RM., ETC.	AGC15-S8502-496137
8.	PAINTING SCHEDULE.	AGC15-S1901-495735
9.	ADD'L. BERTHS IN WORKING SPACES THROUGHOUT SHIP	AGC15-S3304-495795

GENERAL NOTES

1. ALL ITEMS IN B/M. MARKED THUS Ⓕ ARE ORDERED ON REF. No. 4.
2. ALL EQUIPMENT TO BE SET LEVEL.
3. FOUNDATIONS & FASTENINGS FOR EQUIPMENT FURNISHED BY GOVERN'M'T, OTHER THAN CALLED FOR, TO BE SPECIFIED BY FOREMAN UPON RECEIPT OF EQUIPMENT.
4. DRAWING TABLE, PC. No. 35, TO BE INSTALLED BY GOV'T. DURING FITTING-OUT PERIOD.
5. TRANS. M.J. BHD. AT FR. 69 TO BE LEFT FREE UNTIL CAMERA IS INSTALLED. FASTENING DETAILS FOR CONNECTING CAMERA BHD. FRAME TO M.J. BHD. TO BE SIMILAR TO DET. "4-G", REF. No. 5. CONNECTION TO BE MADE LIGHT-TIGHT.- ALL WORK TO BE CHECKED WITH EQUIPMENT.

ALTERATIONS

NO.	PANEL NO.	DESCRIPTION	APPROVED	DATE	B M AFFEC'D
1^2	2^2	TITLE "B", & SOURCE ADDED IN B/M REMARKS COLUMN FOR PC. No. 23. TITLE "C" CHANGED TO "B" AND SOURCE CHANGED FOR PC. No. 35. CBS	NRM	2/9/45	YES
2^2	2^1 3^1	Pc. No. 55 IN B/M INCREASED FROM 1 TO 3 PIECES. TWO SHELVES INDICATED OVER WORK TABLE IN DARK ROOM AFT. OF BHD. 66 WWS		8/24/45	YES

SPACE ABOVE LINE TO BE KEPT CLEAR

NAMES & NUMBERS OF APPLICABLE VESSELS	NAMES OF BUILDING YARDS
AGC 17	ATLANTIC BASIN IRON WORKS BROOKLYN, N.Y.
AGC 16	BOSTON NAVY YARD
AGC 15	PHILA. NAVY YARD

NAME. ADDRESS AND PLAN NO OF OTHER CONTRACTORS OR SUB-CONTRACTORS

PHILADELPHIA NAVY YARD
INDUSTRIAL DEPARTMENT

HULL PLAN

SCALE: AS SHOWN = 1 FT.
SQUAD LEADER C. B. Sentman NAVAL ARCHITECT DATE 1/25/45
DRAWN BY A. Smaldone DATE 1-18-45
GROUP SUPERVISOR SENIOR NAVAL ARCH. 1/25/45
TRACED BY
SECTION SUPERVISOR R. B. Cowell PRIN. NAVAL ARCH. 1/25/45
CHECKED BY
HEAD NAVAL ARCH. 1/26/45

APPROVED
DATE 1/25/45 for DESIGN SUPERINTENDENT
Lt./comdr. USNR

SATISFACTORY TO

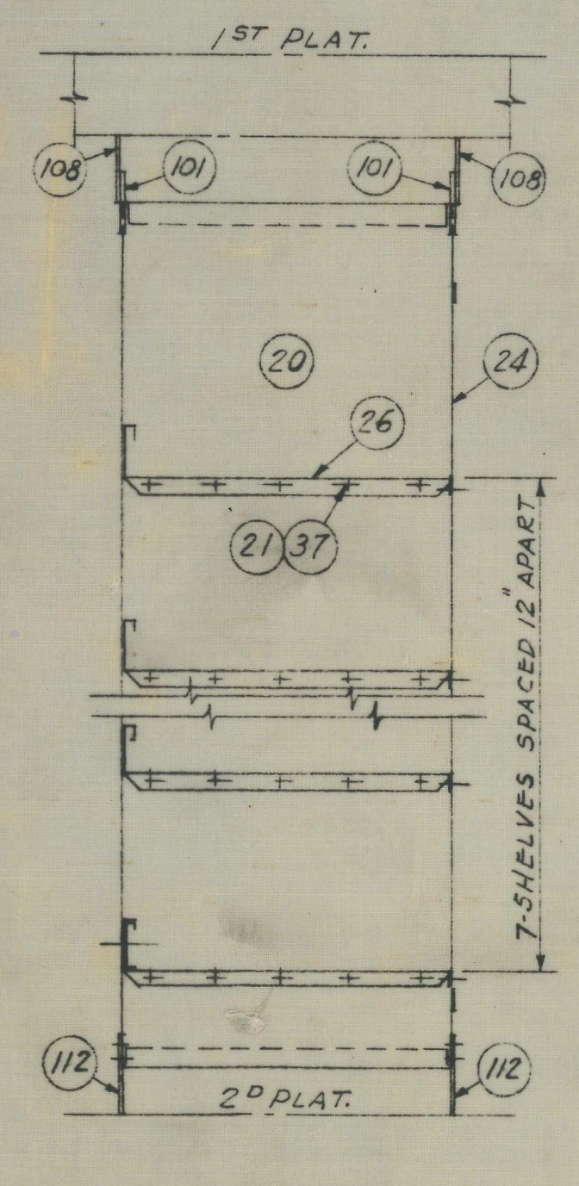
APPROVED
BUREAU OF
LETTER

PLAN
EXAMINED AND FOUND CORRECT
DATE DESIGN SUPERINTENDENT

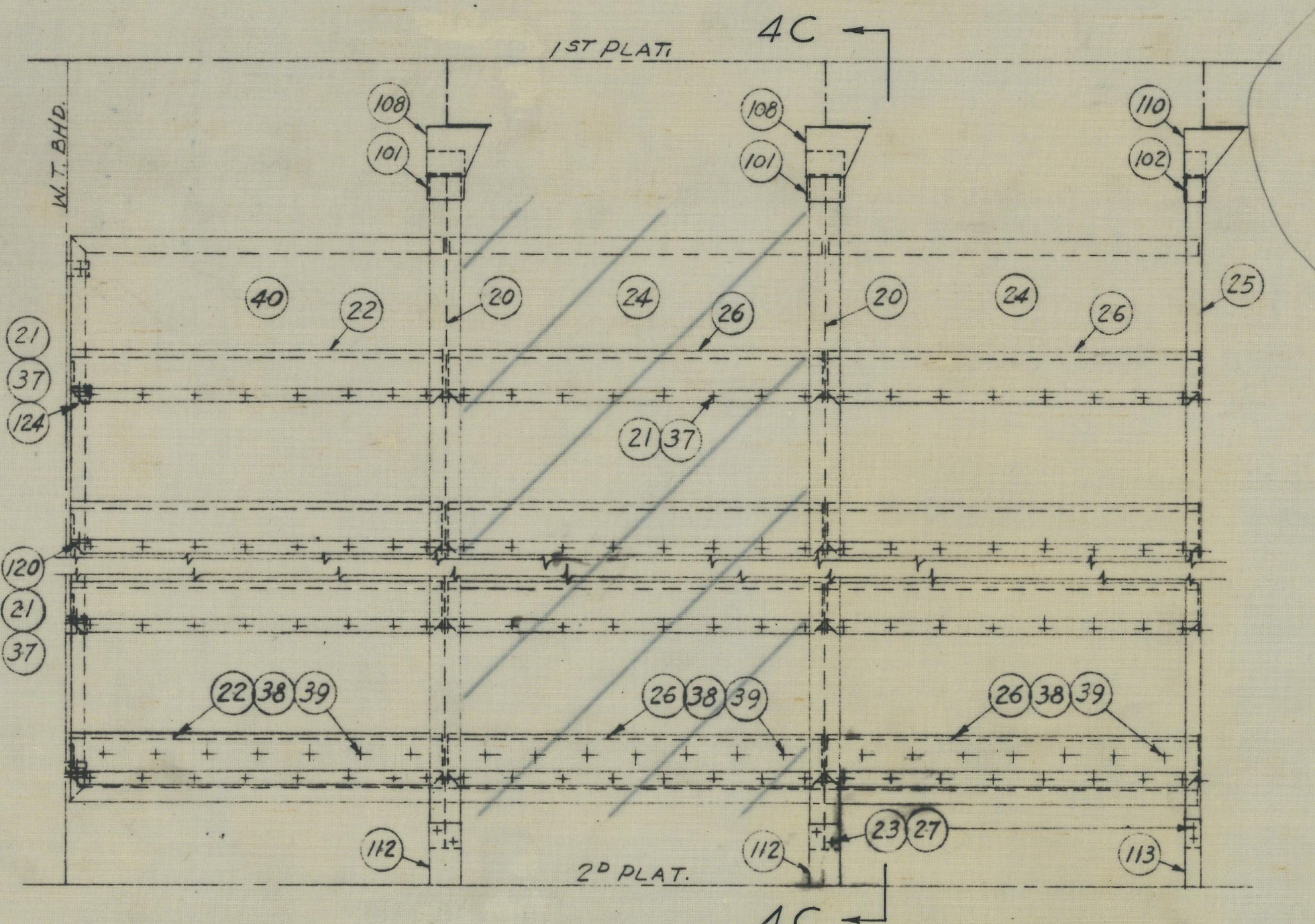
TITLE
STILL PHOTOGRAPHY
MAP STOWAGE, DARK R'M.
& MAP REPRODUCTION SPACE
ARR G'T.
2ND PLAT.- FRS. 66-81, PORT

BUREAU OF SHIPS PLAN NUMBER
AGC15-S8502-496137 ALT. 2

AREA - 47" X 28"

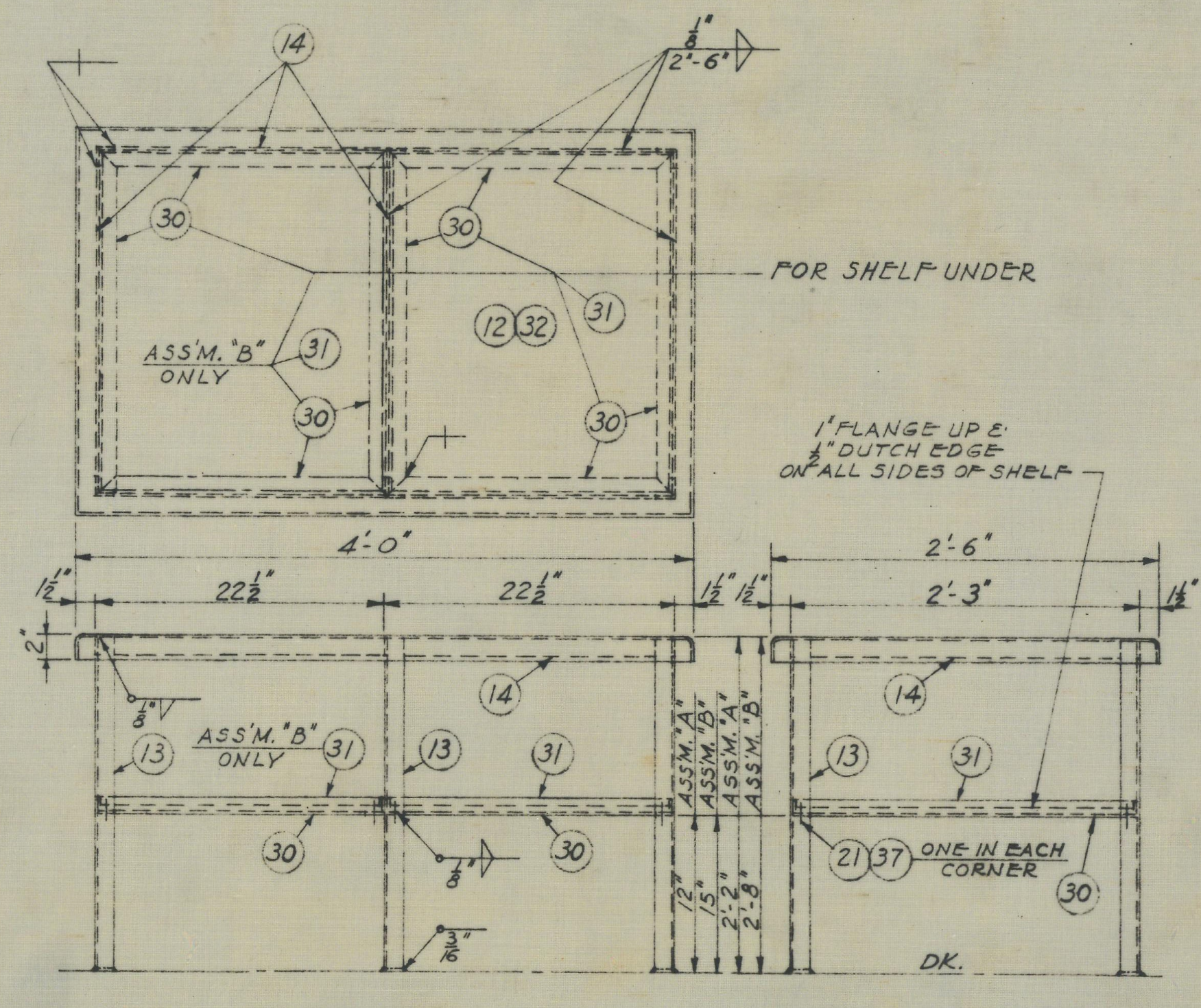


SEC. 4C
TYPE 'D' BINS
SCALE: 1"=1'-0"

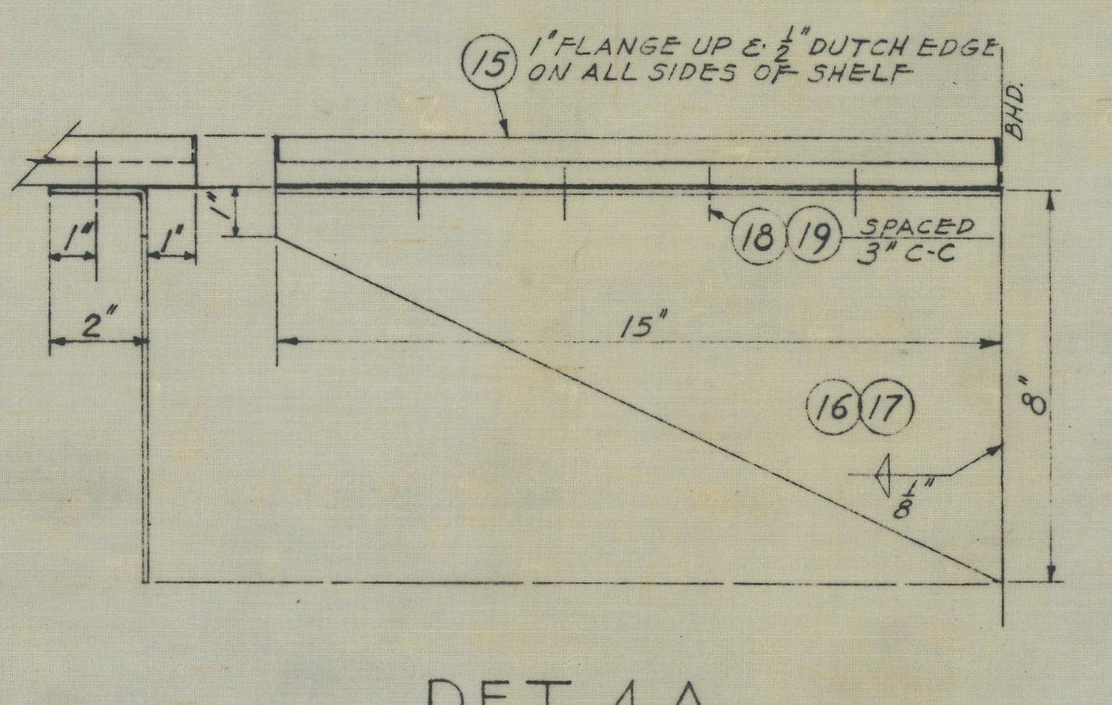


ELEV. 4B ELEV. 3C
TYPE 'D' BINS 1
SCALE: 1"=1'-0"

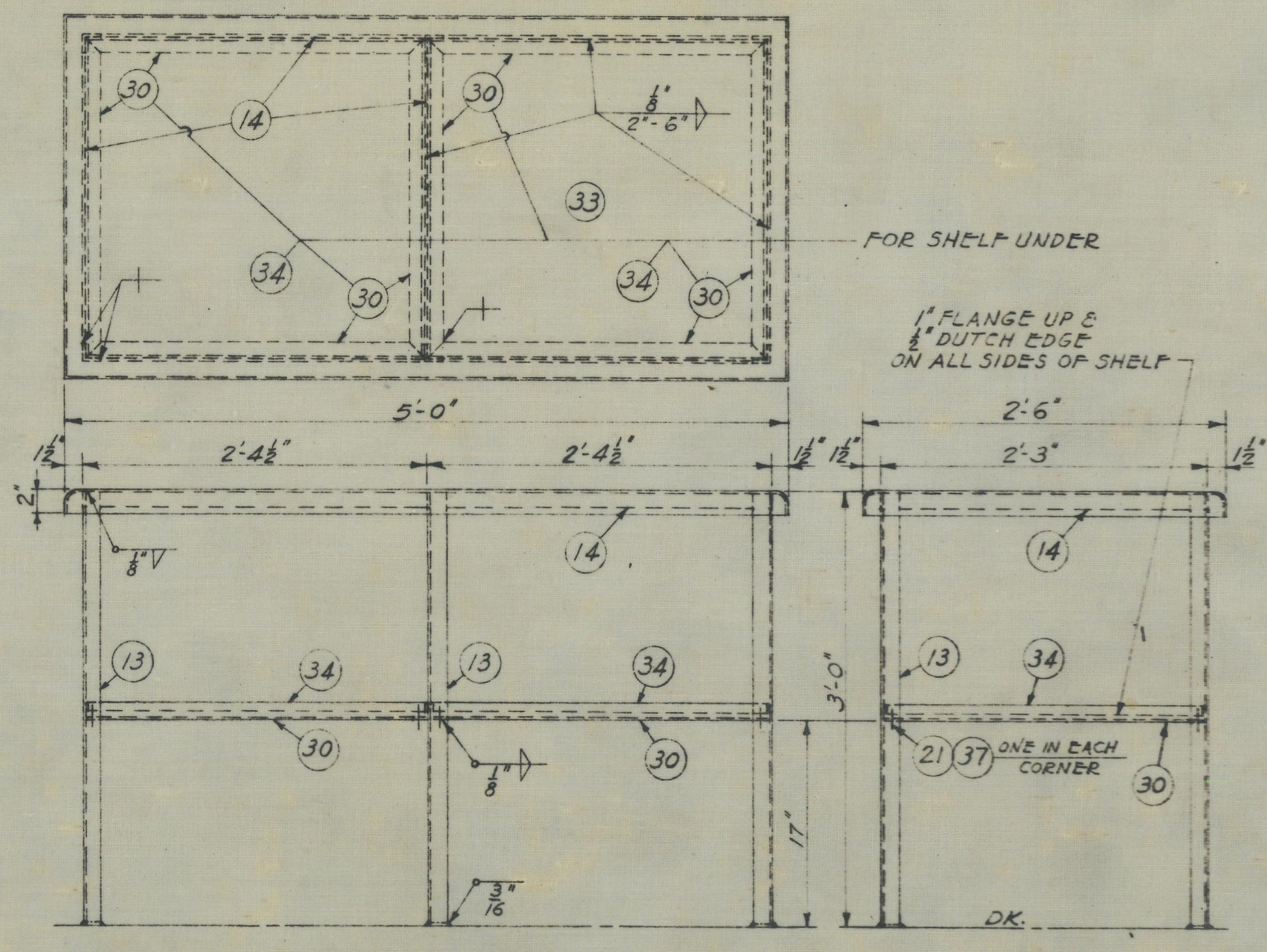
FOR BIN DETAILS - SEE REF. Nº 1



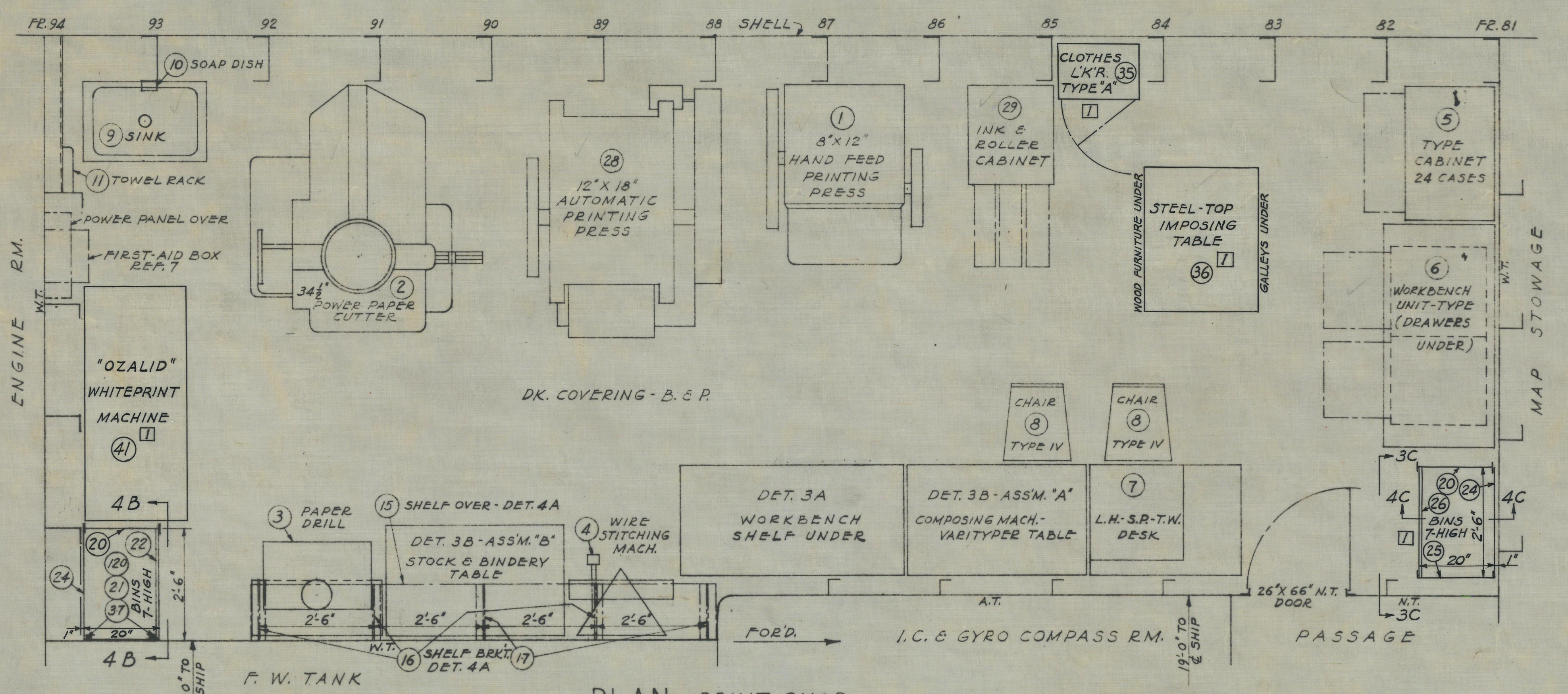
DET. 3B
ASS'M. 'A' - TABLE FOR COMPOSING MACH - VARITYPER (AS SHOWN)
ASS'M. 'B' - TABLE FOR STOCK & BINDERY WORK (SIMILAR AS NOTED)
SCALE: 1"=1'-0"



DET. 4A
BHD. SHELF & BRACKETS
SCALE: 3"=1'-0"



DET. 3A
WORKBENCH
SCALE: 1"=1'-0"



PLAN - PRINT SHOP
2º PLAT. - PORT
SCALE: ½"=1'-0"

MATERIAL FOR ONE SHIP

JOB ORDER 1051-A-9101

	PIECE NO.	NAME OF PIECE	NUMBER WANTED	MATERIAL			ALLOW TITLE	JOB ORDER	REMARKS	CAL. WEIGHTS		
				KIND	SPEC'S	SOURCE				UNIT	TOTAL	GROUP
	1	PRINTING PRESS - 8"X12" (HAND)	1	STL.					GOV'T. FURN.			
	2	PAPER CUTTER - 34½"	1	STL.					↓ ↓			
	3	PAPER DRILL	1	STL.								
	4	WIRE STITCHING MACH.	1	STL.								
	5	TYPE CABINET - 24 CASES	1	STL.								
	6	WORKBENCH - 60" - (UNIT)	1	STL.					SEE GEN. NOTE-8			
	7	T.W. DESK - L.H. - S.P.	1	STL.	26F4				PC. Nº 81 - REF. 6			
	8	CHAIR - TYPE IV	2	↓			B	1051-H-0000-2				
	9	SINK - TYPE K-1	1						SEE GEN. NOTE-7			
	10	SOAP DISH	1						ORDERED ON PLAN Nº			
	11	TOWEL RACK	1						AGC15-S4808-495936			
	12	TABLE TOP	2	M.S.	48S5				5#PL - 34"X52"			
	13	UPRIGHT (FOR TABLE & WORKB'H.)	74 L.F.	↓	46S1				1½"X1½"X3/16"∠ CUT TO SUIT			
	14	STIFF'R. (FOR TABLE & W'KB'H. TOP)	50 L.F.		↓				1½"X3/16" F.B. CUT TO SUIT			
	15	SHELF (FOR BHD.)	1	SH. STL. GALV.	47S29				.063"THK. - 18"X10'-5"			
	16	SHELF BR'K'T. - AS SHOWN	3	M.S.	48S5				5#PL - 10"X15"			
	17	SHELF BR'K'T. - OPP. HAND	2	↓	↓				↓ ↓			
	18	#10-24 N.C. 2 RD. HD. MACH. SCR.	20	STL.-ZINC COATED	42S5				L=½"			
	19	#10-24 N.C. 2 HEX. NUT	20	↓	↓							
	20	DIVISION PLATE (FOR BINS)	2	SH. STL.	47S28				.063"THK. - 2'-6"X8'-8½"			
1	21	¼"-20 N.C. 2 RD. HD. MACH. SCR.	333	STL.-ZINC COATED	42S5				L=¾"			
	22	SHELF (FOR BINS)	7	SH. STL.	47S28				.063"THK. - 2'-1¼"X2'-10"			
	23	⅜"-16 N.C. 2 RD. HD. MACH. SCR.	12	STL.-ZINC COATED	42S5				L=1"			
1	24	BACK PLATE (FOR BINS)	1	SH. STL.	47S28				.063"THK. - 2'-5½"X7'-5"			
	25	END PLATE (FOR BINS)	1						.063"THK. - 2'-1¼"X7'-5"			
1	26	SHELF (FOR BINS)	7	↓	↓				.063"THK. - 2'-1¼"X2'-8"			
	27	⅜"-16 N.C. 2 HEX. NUT	12	STL.-ZINC COATED	42S5							
	28	PRINTING PRESS - 12"X18" (AUTO.)	1						GOV'T. FURN.			
	29	INK & ROLLER CABINET	1	STL.					↓ ↓			
	30	ANGLE FRAME (FOR TABLE & W'KB'H.)	56 L.F.	M.S.	46S1				1¼"X1¼"X3/16"∠ CUT TO SUIT			
	31	SHELF (FOR TABLE)	3	SH. STL.	47S28				.063"THK. - 26⅛"X30⅝"			
	32	LINOLEUM - LT. WT. - GREEN (FOR TABLE)	2	LIN.	LLL-L-351				48"X30"			
	33	WORKBENCH TOP	1	M.S.	48S5				5#PL - 2'-10"X5'-4"			
	34	SHELF (FOR WORKBENCH)	2	SH. STL.	47S28				.063"THK. - 29¼"X30¾"			
	35	CLOTHES LOCKER - TYPE "A"	1	STL.	26F4				PC. Nº 109 - REF. 6			
	36	IMPOSING TABLE - STEEL TOP	1	STL.					GOV'T. FURN.			
1	37	¼"-20 N.C. 2 HEX. NUT	333	STL.-ZINC COATED	42S5							
1	38	SHELF STIFF'R. (FOR BINS)	2	SH. STL.	47S28				.078"THK. - 3 15/16"X2'-5"			
1	39	3/16" DIA. RIVET	14	STL.	43R2				TO SUIT			
	40	BACK PLATE (FOR BINS)	1	SH. STL.	47S28				.063"THK. - 2'-6¾"X7'-5"			
	101	DEFLECTION SLEEVE (FOR BINS)	4	M.S.	48S5				5#PL - 5⅛"X TO SUIT			
	102	DEFLECTION SLEEVE (FOR BINS)	2						↓ 3¾"X TO SUIT			
	108	DEFLECTION SLEEVE SUPP'T.	4						7.65#PL - 4¾"X3"X4"			
	110	DEFLECTION SLEEVE SUPP'T.	2		↓				↓ 4¾"X1¾"X4"			
	112	DECK LUG	4		46S1				2½"X¼" F.B. - 5" LG.			
	113	DECK LUG	2						1¼"X¼" F.B. - 5¼" LG.			
	120	SHELF CLIP	14						1½"X3/16" F.B. - 1½" LG.			
	124	BHD. CLIP	8	↓	↓				1¼"X3/16" F.B. - 1¾" LG.			
1	41	"OZALID" WHITEPRINT MACHINE	1	STL.			TITLE - "A" - BUSHIPS MACHY. ALLOW.; PART I - GRP. S91-1 - PRI, PAGE 1-A; MODEL - F S. & A. CONTR. Nº 18860 TPS 65742					

ALTERATIONS

NO.	PANEL NO.	DESCRIPTION	APPROVED	DATE	B/M AFFEC'D
1¹²	2ᵀ	B/M - PC. Nºs. 21, 24, 26, 37, 38 & 39 - NUMBER WANTED CHG'D.; PC. Nº 41 ADDED.	NRN	5/22/45	
	(2-4)⁴	PLAN VIEW - PC. Nº 35 RELOC.; PC. Nº 36 RELOC.; BINS @ FR. 94 - CENTER SECT. DELETED & OUTB'D. SECT. RELOC. TO FR. 81; PC. Nº 41 ADDED.			
	(3-4)¹	BIN ELEV. - CENTER SECT. DELETED.			

GENERAL NOTES

1-ALL INTERFERENCES WITH PIPES, VENTS, STRUCTURE, ETC. TO BE CHECKED FROM SHIP.
2-ALL SHELVES TO BE PORTABLE AND LEVEL.
3-PAINTING TO BE IN ACCORDANCE WITH REF. Nº 5.
4-Pc Nºs. IN 100 SERIES ARE DETAILED ON REF. Nº 1.
5-COMPOSING MACHINE TABLE & STOCK AND BINDERY TABLE TO BE COVERED WITH LINOLEUM.
6-SHELF (Pc Nº 15) TO BE 5'-6" ABOVE DECK.
7-SINK (Pc Nº 9) TO BE MANUFACTURED FROM TYPE PLAN Nº S3402-98018.
8-WORKBENCH (Pc Nº 6) PROVIDED ON M.R.S. SERIAL Nº 1044.

REFERENCES

1-DETAILS OF STOREROOMS - PHILA. N.Y. TYPE PLAN	S3001-492520
2-STOREROOM DETAILS - BUSHIPS GEN. TYPE PLAN	458549
3-CONVERSION SPECS	
4-2º PLAT. - COMP'T. & ACCESS PLAN	AGC15-S1601-495721
5-PAINTING SCHEDULE	AGC15-S1901-495735
6-LIST OF METAL FURNITURE	AGC15-S3209-495773
7-FIRST-AID BOXES	AGC15-S3702-495827

SUBSTITUTIONS FOR CRITICAL MATERIALS
ON THE BASIS OF TIME AND AVAILABILITY
HAVE BEEN MADE WHEREVER FEASIBLE.

NAMES & NUMBERS OF APPLICABLE VESSELS	NAMES OF BUILDING YARDS
AGC 17	ATLANTIC BASIN IRON WORKS - BROOKLYN, N.Y.
AGC 16	BOSTON NAVY YARD
AGC 15	PHILA. NAVY YARD

NAME, ADDRESS AND PLAN NO. OF OTHER CONTRACTORS OR SUB-CONTRACTORS

PHILADELPHIA NAVY YARD
INDUSTRIAL DEPARTMENT

HULL PLAN
[redacted]

SCALE: AS NOTED = 1 FT.		SQUAD LEADER J. A. HANLEY NAVAL ARCHITECT	DATE 1/6/45
DRAWN BY H. L. RIEGER	DATE 1/5/45	GROUP SUPERVISOR SENIOR NAVAL ARCHITECT	1/6/45
TRACED BY —		SECTION SUPERVISOR R B Cowell PRINCIPAL NAVAL ARCHITECT	1/6/45
CHECKED BY		E Tissenden HEAD NAVAL ARCHITECT	1/8/45

APPROVED
DATE 1/6/45 for N R Nelson
DESIGN SUPERINTENDENT
Lt. Comdr. USN

SATISFACTORY TO

APPROVED BUREAU OF LETTER

PLAN
EXAMINED AND FOUND CORRECT
DATE DESIGN SUPERINTENDENT

TITLE
OFFICE & OFFICE EQUIPMENT
PRINT SHOP
ARRGT. & DETAILS
2º PLAT. - FRS. 81-94 - PORT

BUREAU OF SHIPS PLAN NUMBER
AGC15-S3203-495769 ALT.-1.

PRODUCTION UNIT
DEPT.
1/6 JR

SPACE ABOVE LINE TO BE KEPT CLEAR

SPACE FOR RECORD OF PRINTS OR OTHER DATA
NOT TO BE USED FOR ALTERATIONS, TABLES, BILL OF MATERIALS, ETC.

AGC15-S3203-495769

AREA - 47" X 28" = 9.1 sq. ft.

8-94 9-9-79

MATERIAL FOR ONE SHIP

Job Order 1051-A-3301

	PC. No.	NAME OF PIECE	No. WTD.	MATERIAL KIND	MATERIAL SPEC'S.	MATERIAL SOURCE	ALLOW TITLE	JOB ORDER	REMARKS	CALC. WTS. UNIT	CALC. WTS. TOTAL	CALC. WTS. GROUP
	1	BERTH (COMPLETE)	44			SEE GEN. NOTE-7			PART No. 1 SIMILAR TO SIMMONS CO. SPEC'S. STD. TRANS. BERTH NO. 459B			
	2	BERTH BRACKET	69	M.W. STL. GALV.	48 S 5 (INT)	↓			7.65# PLT. × 2 3/4" × 4"			
	3	CHAIN BRACKET	62	↓	↓	↓			10.2# PLT. × 2 1/2" × 3"			
	4	S-HOOK	258			↓			PART No. 5 SIMILAR TO SIMMONS CO. SPEC'S. STD. TRANS. BERTH NO. 459 B			
	5	CHAIN	88			↓			PART No. 4 SIMILAR TO SIMMONS CO. SPEC'S. STD. TRANS. BERTH NO. 459 B			
	6	BERTH BRACKET	19	M.W. STL. GALV.	48 S 5 (INT)	↓			7.65# PLT. × 2 3/4" × 5"			
	7	CHAIN BRACKET	12	↓	↓	↓			10.2# PLT. × 2 1/2" × 4"			
	8	FLAT BAR	50	↓	46 S 1 (INT)				2 1/2" × 1/4" F.B. × 4"			
	9	BERTH BRACKET EXT.	30	↓	↓				2 1/2" × 2 1/2" × 1/4" L × 6"			
	10	↓	2	↓	↓				2 1/2" × 2 1/2" × 1/4" L × 7"			
	11	↓	10	↓	↓				2 1/2" × 2 1/2" × 1/4" L × 9"			
	12	↓	8	↓	↓				2 1/2" × 2 1/2" × 1/4" L × 14"			
	13	SUPPORT	102 LIN. FT.	↓	↓				3" × 3" × 1/4" L CUT TO SUIT			
1	14	LOCKER, CLOTHES, TYPE B-1 1/3 UNIT - 1 LOCKER,	32	STEEL		Ⓕ			PC. № 117 ON REF № 6			
	15	C.P.O. BERTH (COMPLETE	1			SEE GEN. NOTE-7			PART No. 1 SIMILAR TO SIMMONS CO. SPEC'S. STD. C.P.O. & SICK BAY BERTH. B-5016			
	16	BERTH BRACKET	2	M.W. STL. GALV.	48-S-5 (INT.)	↓			7.65# PLT. × 2 3/4" × 8"			
	17	CHAIN	2			↓			PART No. 4 SIMILAR TO SIMMONS CO. SPECS STD. C.P.O. & SICK BAY BERTH No. B-5016			
	18	S-HOOK	6			↓			PART No. 5 SIMILAR TO SIMMONS CO. SPEC'S. STD. C.P.O. & SICK BAY BERTH No. B-5016			
1	19	LOCKER, CLOTHES, TYPE B-2 1/2 UNIT - 1 LOCKER	11			Ⓕ			PC. № 120 ON REF. № 6			

ALTERATIONS

NO.	PANEL NO.	DESCRIPTION	APPROVED	DATE	B M AFFEC'D
1^4	$2^2, 7^2$	VENT TRK. RELOCATED IN CREWS BARBER SHOP. LOCKERS REARRANGED TO SUIT. LOCKER CHANGED FROM B-1 TO B-2 IN OFFS. BARBER SHOP. ITEM 14 DECREASED BY 1. ITEM 19 INCREASED BY 2.		4/10/45	YES

GENERAL NOTES

1. BEFORE WORK IS INSTALLED, ALL STRUCTURAL INTERFERENCES, PIPING, VENT DUCTS ETC. ARE TO BE CHECKED FROM SHIP.
2. ALL BERTHS & LOCKERS TO SET LEVEL & PARALLEL TO ℄ SHIP EXCEPT AS SHOWN.
3. LOCATION OF BERTHS MAY BE CHANGED SLIGHTLY IF FOUND NECESSARY TO SUIT OBSTRUCTIONS ABOARD SHIP UPON APPROVAL OF SHIP'S SUPERINTENDENT.
4. LOCKER LEGS TO BE REMOVED WHEREVER POSSIBLE TO FACILITATE CLEANING UNDER LOCKERS.
5. FOREMAN SPECIFY FASTENINGS FOR CLOTHES LOCKERS TYPE "B-1" & "B-2"
6. ITEMS MARKED THUS Ⓕ ARE ORDERED ON METAL FURNITURE LIST, SEE REF. 6.
7. PC. NOS. 1 TO 7 INC. & 15 TO 18 INC. ARE ORDERED ON M.R.S. SERIAL NO. 1001

REFERENCE PLANS

1. GENERAL ARRGT. 2ND. PLAT.	AGC-15-S 3301-495776
2. GENERAL ARRGT. 2ND. DECK.	495778
3. GENERAL ARRGT. MAIN DECK.	495779
4. GENERAL ARRGT. BOAT DK., NAV. BR., FLAG BR., TOP OF HOUSES & GUN PLAT.	495781
5.	
6. LIST OF METAL FURNITURE	S 3209-495773
7. ADD'L. BUNKS IN WORKING SPACES THROUGHOUT SHIP, SHEET 2	S 3304-495795

NAMES & NUMBERS OF APPLICABLE VESSELS	NAMES OF BUILDING YARDS
AGC 17	ATLANTIC BASIN IRON-WORKS, BROOKLYN, N.Y.
AGC 16	BOSTON NAVY YARD
AGC 15	PHILA. NAVY YARD.

NAME, ADDRESS AND PLAN NO. OF OTHER CONTRACTORS OR SUB-CONTRACTORS

PHILADELPHIA NAVY YARD
INDUSTRIAL DEPARTMENT

HULL PLAN

SCALE 1/4"-1/2"-6"-12" = 1 FT.		SQUAD LEADER G. W. Wingquist NAVAL ARCHITECT	DATE 3/14/45
DRAWN BY W. E. SCULL	DATE 3/13/45	GROUP SUPERVISOR SENIOR NAVAL ARCHITECT	3/14/45
TRACED BY		SECTION SUPERVISOR R. B. Cowell PRINCIPAL NAVAL ARCHITECT	3/14/45
CHECKED BY H. F. Ulmer	3/14/45	HEAD NAVAL ARCHITECT	3/14/45

APPROVED
DATE 3/14/45 for DESIGN SUPERINTENDENT
H. Geiger
Lt. Comdr. USNR

SATISFACTORY TO

APPROVED BUREAU OF LETTER

PLAN
EXAMINED AND FOUND CORRECT
DATE DESIGN SUPERINTENDENT

TITLE
LIVING & BERTHING
ADD'L. BUNKS IN WORKING SPACES THROUGHOUT SHIP
SHEET 1 OF 2

BUREAU OF SHIPS PLAN NUMBER
AGC-15-S3304-495794 ALT. 1

PLAN REPRODUCTION UNIT
PHOTACT DEPT.

	DATE
PHOTACT RETURNED FOR TOUCH-UP	
ORIGINAL RETURNED FOR TOUCH-UP	
ORIGINAL NOT REPRODUCIBLE	
PASSED FINAL INSPECTION	3-6-45

3V.916

SPACE FOR RECORD OF PRINTS OR OTHER DATA
NOT TO BE USED FOR ALTERATIONS, TABLES, BILL OF MATERIALS, ETC.

AREA - X 28" = sq. ft.

8

AUXILIARY MACHINERY - DESIGN DATA

NAME OF UNIT	NUMBER AND DESCRIPTION OF UNITS INSTALLED ON SHIP	RATED CAPACITY	PRESSURE TOTAL HEAD (T.H.) SUCTION PRESS. (S.P.) DISCHARGE PRESS. (D.P.) STATIC PRESS. (St.P.)
PUMPS			
MAIN FEED PUMP	1-TURBINE DRIVEN HORIZONTAL, CENTRIFUGAL	150 GPM--NORMAL 180 GPM--MAXIMUM	634 PSI---(T.H.) 581 PSI---(T.H.)
AUXILIARY FEED PUMP	1-TURBINE DRIVEN HORIZONTAL, CENTRIFUGAL	150 GPM--NORMAL 180 GPM--MAXIMUM	634 PSI---(T.H.) 581 PSI---(T.H.)
PORT FEED PUMP	1-VERTICAL SIMPLEX 8½" x 5¼" x 15"	50 GPM	23 PSI-G. (S.P.) 600 PSI-G. (D.P.)
MAIN CONDENSER CIRCULATING PUMP	1-MOTOR DRIVEN HORIZONTAL, CENTRIFUGAL	9500 GPM	27 FT.----(T.H.)
AUX. CONDENSER CIRC. PUMP (PORT UNIT)	1-MOTOR DRIVEN HORIZONTAL, CENTRIFUGAL	1500 GPM	27 FT.----(T.H.)
AUX. CONDENSER CIRC. PUMP (STBD. UNIT)	1-MOTOR DRIVEN HORIZONTAL, CENTRIFUGAL	2100 GPM	22.4 FT.----(T.H.)
MAIN CONDENSATE PUMP	2-MOTOR DRIVEN VERTICAL, CENTRIFUGAL	120 GPM	185 FT.----(T.H.)
AUXILIARY CONDENSATE PUMP (PORT UNIT)	1-MOTOR DRIVEN HORIZONTAL, CENTRIFUGAL	20 GPM	185 FT.----(T.H.)
AUXILIARY CONDENSATE PUMP (STBD. UNIT)	1-MOTOR DRIVEN HORIZONTAL, CENTRIFUGAL	25 GPM	208 FT.----(T.H.)
LUBE OIL SERVICE PUMP	1-MOTOR DRIVEN VERTICAL ROTARY GEAR	250 GPM	47 PSI-G.--(D.P.)
LUBE OIL SERVICE STANDBY PUMP	1-VERTICAL DUPLEX 7½" x 9" x 12"	250 GPM	47 PSI-G.--(D.P.)
FUEL OIL SERVICE PUMP	1-MOTOR DRIVEN VERTICAL ROTARY GEAR	11 GPM	400 PSI-G.--(D.P.)
FUEL OIL SERVICE STANDBY PUMP	1-VERTICAL SIMPLEX 7" x 4" x 10"	11 GPM	400 PSI-G.--(D.P.)
FUEL OIL TRANSFER PUMP	1-MOTOR DRIVEN VERTICAL ROTARY GEAR	225 GPM	50 PSI-G.--(D.P.)
DIESEL OIL TRANSFER PUMP	1-HORIZONTAL DUPLEX 4½ x 3¾ x 4"	30 GPM	15" Hg. A.--(S.P.) 50 PSI-G.--(D.P.)
FOG OIL TRANSFER PUMP	1-HORIZONTAL DUPLEX 4½" x 3¾" x 4"	30 GPM	15" Hg. A.--(S.P.) 50 PSI-G.--(D.P.)
FIRE SERVICE PUMP	1-MOTOR DRIVEN HORIZONTAL CENTRIFUGAL	400 GPM	281 FT.----(T.H.)
FIRE SERVICE STANDBY PUMP	1-VERTICAL SIMPLEX 12" x 11" x 18"	400 GPM	125 PSI-G.--(T.H.)
FIRE AND SANITARY PUMP	1-VERTICAL SIMPLEX 12" x 11" x 18"	400 GPM	125 PSI----(T.H.)
AUX. SALT WATER CIRCULATING PUMP	1-MOTOR DRIVEN HORIZONTAL CENTRIFUGAL	80 GPM	35 PSI----(T.H.)
BILGE PUMP	1-VERTICAL SIMPLEX 10" x 11" x 18"	400 GPM	50 PSI-G.-(T.H.)
CLEAN BALLAST PUMP	1-VERTICAL SIMPLEX 10" x 11" x 18"	400 GPM	50 PSI-G.-(T.H.)
DIRTY BALLAST PUMP	1-VERTICAL SIMPLEX 10" x 11" x 18"	400 GPM	50 PSI-G.-(T.H.)
MAKE-UP EVAPORATOR FEED PUMP	1-HORIZONTAL DUPLEX 3" x 2¾ x 3"	20 GPM	50 PSI-G.-(D.P.)
FANS AND COMPRESSORS			
FORCED DRAFT FAN	2-MOTOR DRIVEN	7500 CFM-NORMAL 12,000 CFM-OVERLOAD	3.5 INS. WATER (St.P.)-NORMAL 8.1 " " "-OVERLOAD
AIR COMPRESSOR (COMBUSTION CONTROL)	1-MOTOR DRIVEN 4¼" & 2½" x 2¾"	13.85 CFM (DELIVERED)	100 PSI-G. (D.P.)
AIR COMPRESSOR (SHIP'S SERVICE)	1-MOTOR DRIVEN 5" & 5" & 4" x 4"	60.5 CFM (DELIVERED)	110 PSI-G. (D.P.)
L.P. AIR COMPRESSOR (SHIP'S SERVICE)	1-SINGLE STAGE DOUBLE ACTING LOCOMOTIVE TYPE 11" x 11" x 12"	66 CFM (PISTON DISPL.) 41.5 CFM (DELIVERED)	100 PSI-G. (D.P.)
HEAT EXCHANGERS			
EVAPORATOR COIL DRAIN COOLER	1-STRAIGHT TUBE COOLING SURFACE-46.6 SQ.FT.	FEED IN TUBES-106GPM (110-121.9°F.) DRAINS IN SHELL-20GPM (228-165°F.)	PRESSURE DROP FEED-----3.5 FT. H_2O
1ST STAGE FEED WATER HEATER	1-STRAIGHT TUBE HEATING SURFACE--305 SQ.FT.	FEED IN TUBES -45000 LBS/HR. (100-172°F.) STEAM TO SHELL 2840 " (180°F.) DRAINS " 1600 " (250-110°F.) " FROM " 4440 " (110°F.)	STEAM PRESS. IN SHELL-7.5 PSI-A.
2ND STAGE (DEAER.) FEED WATER HEATER	1-VERTICAL CYLINDER	FEED INLET CAPACITY-45000 LBS/HR. @172°F. " OUTLET " -54000 " " 240°F. RATED STEAM LOAD-3000 " "10PSI-G.	PRESSURE DROP STEAM-INLET FLG. TO SHELL-1.5 PSI FEED-VENT CONDSR." "-6.4 PSI
DEAER. FEED HEATER VENT CONDENSER	1-STRAIGHT TUBE CONDENSING SURFACE 41 SQ.FT.	FEED IN TUBES-45000 LBS/HR. (172-183.9°F.) VENTED VAPORS IN SHELL-25 LBS./HR.	PRESSURE DROP FEED THROUGH TUBES-.1 PSI
3RD STAGE FEED WATER HEATER	1-STRAIGHT TUBE HEATING SURFACE-200 SQ.FT.	FEED IN TUBES-54000 LBS/HR. (240-318°F.) STEAM TO SHELL-4660 " (328°F.) DRAINS " -1300 " (380°F.) " FROM " -5960 " (327°F.)	STEAM PRESS. IN SHELL-100 PSI-A.
MAIN CONDENSER	1-STRAIGHT TUBE CONDENSING SURFACE-5500 SQ.FT.	CONDENSATE-41000 LBS./HR. COOLING WATER-7870 GPM (INJECTION TEMP.-75°F.)	VACUUM = 28.48" Hg.
AUXILIARY CONDENSER (PORT UNIT)	1-STRAIGHT TUBE CONDENSING SURFACE-650 SQ.FT.	CONDENSATE-4750 LBS./HR. COOLING WATER-1420 GPM (INJECTION TEMP.-75°F.)	VACUUM = 28.5" Hg.
AUXILIARY CONDENSER (STBD. UNIT)	1-STRAIGHT TUBE CONDENSING SURFACE-2200 SQ.FT.	CONDENSATE-30500 LBS./HR. COOLING WATER-2100 GPM (INJECTION TEMP.-85°F.)	VACUUM = 25.0" Hg.
MAIN AIR EJECTOR INTER-CONDENSER GLAND- " AFTER- "	1-TWIN 2-STAGE JETS ON INTER & AFTER CONDENSERS CONDENSING SURFACE INTER-CONDENSER-----70 SQ.FT. GLAND- " -----55 " AFTER- " -----20 "	INTER CONDSR. {DRY AIR CAPACITY-34 LBS./HR. AIR & VAPOR MIXT.-86.75 " (EXTRACTION TEMP.-80°F.) GLAND CONDSR. {AIR -300 LBS./HR. GLAND SEAL VAPORS-450 " AFTER CONDSR {DRY AIR CAPAC.-34 " COOLING WATER-50GPM (91°F. INLET)	VACUUM AT 1ST STAGE JET-28.55" Hg.
AUXILIARY AIR EJECTOR (PORT UNIT) INTER-CONDENSER GLAND- " AFTER- "	1-TWIN 2-STAGE JETS ON INTER & AFTER CONDENSERS CONDENSING SURFACE INTER-CONDENSER-----25 SQ.FT. GLAND- " -----13 " AFTER- " -----13 "	INTER CONDSR {DRY AIR CAPACITY-16 LBS./HR. AIR & VAPOR MIXT.-40 " (EXTRACTION TEMP.-80°F.) GLAND CONDSR. {AIR -20 LBS./HR. GLAND SEAL VAPORS-100 " AFTER CONDSR {DRY AIR CAPAC.-16 " COOLING WATER--12 GPM (91°F. INLET)	VACUUM AT 1ST STAGE JET-28.55" Hg.
AUXILIARY AIR EJECTOR (STBD. UNIT) INTER-CONDENSER GLAND- " AFTER- "	1-TWIN 2 STAGE JETS ON INTER & AFTER CONDENSERS CONDENSING SURFACE INTER CONDENSER-----40 SQ.FT. GLAND " -----82 " AFTER " -----28.6 "	INTER CONDSR {DRY AIR CAPACITY-22 LBS./HR. AIR & VAPOR MIXT.-52 " EXTRACTION TEMP.-80°F. GLAND CONDSR. {AIR -275 LBS./HR. GLAND SEAL VAPORS-450 " AFTER CONDSR {DRY AIR CAPAC.-22 " COOLING WATER-23GPM (90°F. INLET)	VACUUM AT 1ST STAGE JET-28.5" Hg.
MAIN LUBE OIL COOLER	2-STRAIGHT TUBE COOLING SURFACE-738 SQ.FT. EA.	OIL IN SHELL 117,600 LBS./HR. (257 GPM) (135-110°F.) WATER IN TUBES 187,500 LBS./HR. (365 GPM) (85-92.2°F.)	PRESSURE DROP THROUGH SHELL-12 PSI " TUBES-2 "
LUBE OIL HEATER	1-STRAIGHT TUBE HEATING SURFACE 10 SQ.FT.	OIL-1500 LBS./HR. (75-165°F.)	STEAM WORKING PRESS-50 PSI-G.
FUEL OIL HEATER	1-FIN TYPE HEATING SURFACE-126.0 SQ.FT.	OIL-4400 LBS./HR. (100-230°F.)	STEAM WORKING PRESS.-50 PSI-G.
FRESH WATER DRAIN COOLER	1-STRAIGHT TUBE COOLING SURFACE-68.3 SQ.FT.	COOLING WATER IN TUBES (SEA) 85 GPM (85-118°F.) DRAINS IN SHELL-45 GPM (210-150°F.)	PRESSURE DROP COOLING WATER--7 FT. H_2O

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
⋈	GLOBE VALVE
⧓	CHECK VALVE
⋈	GATE VALVE
⋈	PRESSURE REDUCING VALVE
⋈	TEMPERATURE CONTROL VALVE
⋈	BACK PRESSURE VALVE
⊡	DESUPERHEATER SPRAY
≡	ORIFICE PLATE
——-——	SUPERHEATED STEAM
—-—-—	DESUPERHEATED STEAM
——·——	BLEEDER & LOW PRESSURE (LIVE) STEAM
— — —	EXHAUST STEAM
————	CONDENSATE & FEED
-------	VAPORS
—---—	DRAINS
≠≠≠≠	ACTUATING LINE

OPERATING CONDITIONS

SHAFT HORSEPOWER (TOTAL)	6000
PROPELLER RPM	94
SHIP'S SPEED, KNOTS	16.8
POUNDS FUEL OIL/SHP-HR.	.813
POUNDS FUEL OIL/HOUR/KNOT	291
SEA TEMPERATURE (°F.)	75
DISPLACEMENT (TONS)	12800
CRUISING RADIUS (NAUTICAL MILES)	11850

REFERENCE DRAWING

AGC 15-S4000-496428 HEAT BALANCE SUMMARY

ALTERATIONS

NO	PANEL NO	DESCRIPTION	APPROVED	DATE	B M AFFEC D

NAMES & NUMBERS OF APPLICABLE VESSELS	NAMES OF BUILDING YARDS
AGC 17	ATLANTIC BASIN IRON WORKS, BROOKLYN, N.Y.
AGC 16	BOSTON NAVY YARD
AGC 15	PHILA. NAVY YARD

NAME, ADDRESS AND PLAN NO OF OTHER CONTRACTORS OR SUB-CONTRACTORS

PHILADELPHIA NAVY YARD
INDUSTRIAL DEPARTMENT

~~HULL PLAN~~
MACHY. PLAN

SCALE =1 FT.		SQUAD LEADER I. L. Meyer	DATE 6-29-45
COMPUTED BY E. TOLL & H.M.	DATE 6/27/45	GROUP SUPERVISOR H. H. Gildner SENIOR MECH. ENGINEER	6-30-45
DRAWN BY N.B. MARGULIES	6/28/45	SECTION SUPERVISOR J. A. Kardabaugh PRINCIPAL MAR. ENGINEER	7/2/45
CHECKED BY A. Marron	6/28/45	L. H. Penney HEAD MAR. ENGINEER	7/2/45

APPROVED
DATE 7/2/45
G. F. Ferguson
for DESIGN SUPERINTENDENT

SATISFACTORY TO

APPROVED
BUREAU OF
LETTER

PLAN
EXAMINED AND FOUND CORRECT
DATE
DESIGN SUPERINTENDENT

TITLE

HEAT BALANCE AND FLOW DIAGRAM
NORMAL FULL POWER AVERAGE SERVICE CONDITION

BASED ON MFRS. PERFORMANCE DATA

BUREAU OF SHIPS PLAN NUMBER
AGC15-S4000-496429 ALT.